

# LAND USE SERVICES DEPARTMENT PLANNING COMMISSION STAFF REPORT

HEARING DATE: November 19, 2020 AGENDA ITEM #3

Project Description

Vicinity Map

**APN:** 0464-171-01

Applicant: Nancy Sansonetti/Department of Public Works

Community: Lucerne Valley/3rd Supervisorial District

Location: SE 1/4 SE 1/4 SEC 33 TP 5N R 1W 40 AC

**Project No:** PROJ-2020-00017

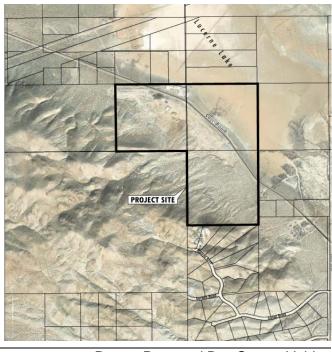
Staff: Steven Valdez, Senior Planner

App Rep: Lilburn Corporation

**Proposal:** A Proposal from the County of San

Bernardino, Department of Public Works (DPW) to request the approval of a Mining Conditional Use Permit and a Reclamantion Plan (2020M-04) for the proposed Cove

Borrow Pit.



Report Prepared By: Steven Valdez

50 Hearing Notices Sent On: November 4, 2020

SITE INFORMATION

**Project Size:** 124.5 Acres of which 36 acres will be used for mining

Terrain: Disturbed Mojave Desert Alluvial Terrain.

Vegetation: Sparse Saltbush and Alkali Sink Scrub.

### SURROUNDING LAND DESCRIPTION:

AREA	EXISTING LAND USE	LAND USE ZONING DISTRICT	
Site	Vacant	Vacant Lucerne Valley / Agricultural (LV/AG-40)	
North	Vacant, Well Site	Lucerne Valley / Floodway (LV/FW)	
South	Vacant	Lucerne Valley / Resource Conservation (LV/RC)	
East	Vacant, Well Site	Lucerne Valley / Agricultural (LV/AG-40)	
West	Vacant	Lucerne Valley / Resource Conservation (LV/RC)	

### **AGENCY**

City Sphere of Influence: None

Water Service: Well and bottled water for employees

Sewer Service: Portable Toilets

**STAFF RECOMMENDATION:** THAT THE PLANNING COMMISSION **ADOPT** THE MITIGATED NEGATIVE DECLARATION, **APPROVE** THE MINING CONDITIONAL USE PERMIT AND RECLAMATION PLAN 2020M-04, SUBJECT TO THE ATTACHED CONDITIONS OF APPROVAL AND INCORPORATED MITIGATION MEASURES, **ADOPT** THE RECOMMENDED FINDINGS, AND **FILE** THE NOTICE OF DETERMINATION.

Figure 1
REGIONAL LOCATION

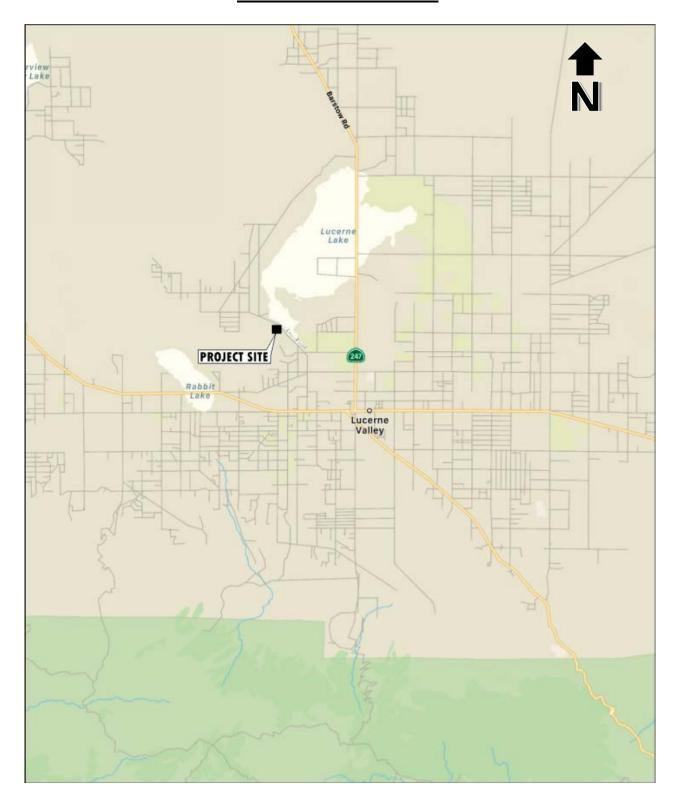
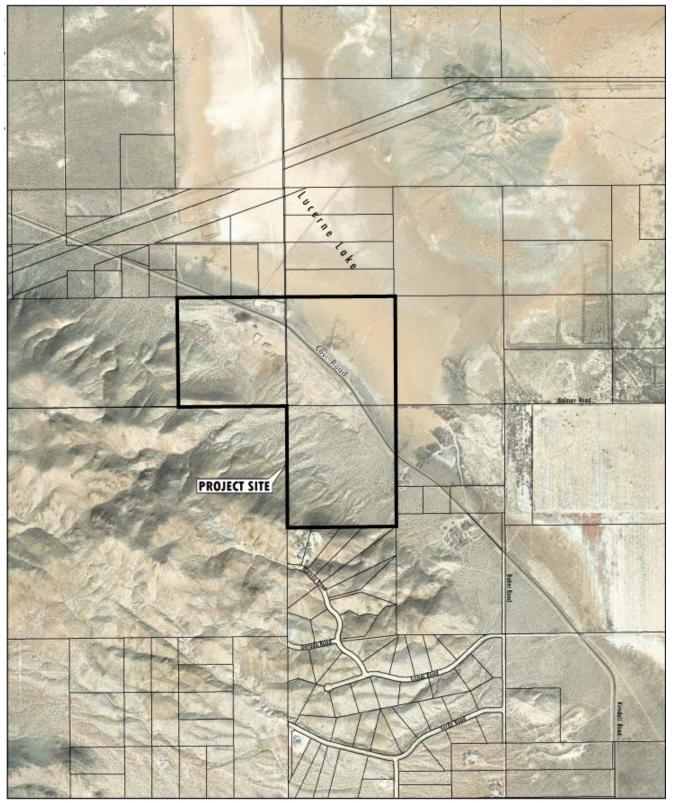


Figure 2 VICINITY MAP

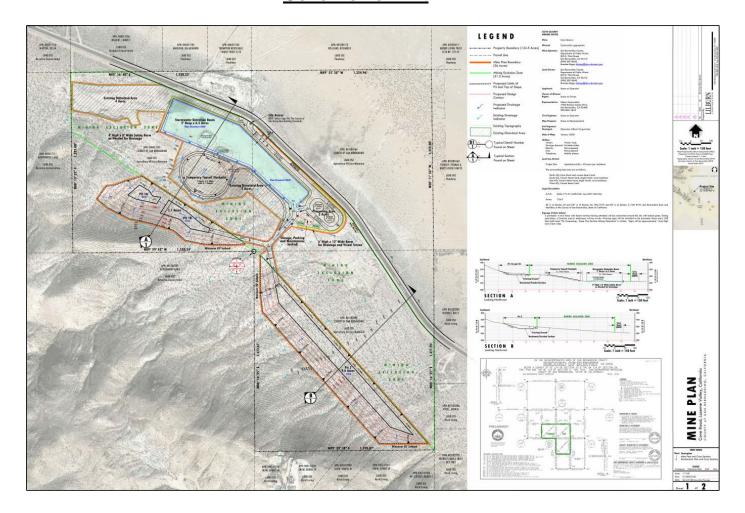


## Figure 3 OFFICIAL LAND USE DISTRICT & VICINITY MAP

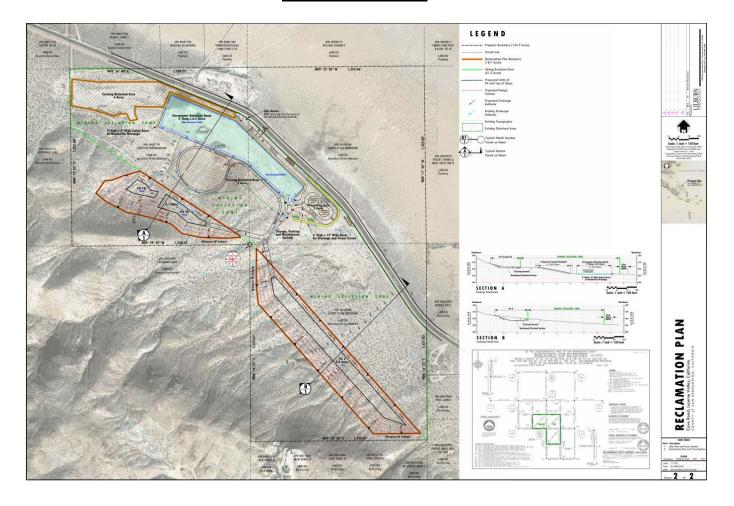
# ZONING DESIGNATION Lucerne Valley, Agricultural, Forty Acre Minimum (LV/AG-40)



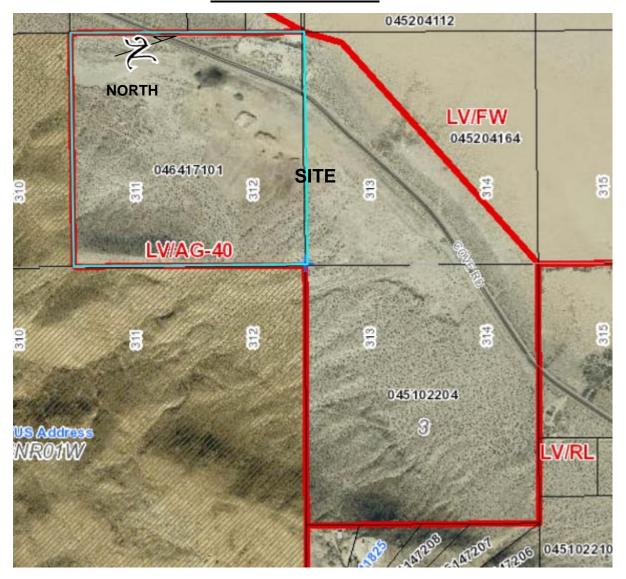
# Figure 4 MINING PLAN Cove Borrow Pit



# Figure 5 RECLAMATION PLAN Cove Borrow Pit



# Figure 6 AERIAL SITE VIEW



# Figure 7 Site Photos



Site Photo Looking Southwest on Cove Road



**Photo looking Southeast on Cove Road** 

### PROJECT DESCRIPTION AND BACKGROUND:

### **Project Summary**

The San Bernardino County, Department of Public Works (DPW) submitted an application for a Mining Conditional Use Permit (CUP) and Reclamation Plan (Plan) for the Cove Borrow Pit (Project). The application is to permit further development of the Cove Borrow Pit operation to annually provide up to 1,000 cubic yards (cy) of material per year for various roads, culverts, and other DPW sites for annual maintenance and/or emergency repair due mainly to storm events. The application will permit the Cove Borrow Pit operation on approximately 36 acres of the 124.5 acre site for a 100-year period. DPW is proposing to mine 14.7 acres on the mostly undisturbed hillside slopes at the southwest portions of the site. A 5-acre Staging Area, a 2-acre Processing Area and a 6.5-acre stormwater detention basin (two feet deep) are also proposed. All active mining areas will be south of Cove Road. No activity is planned to the northeast of Cove Road. The reclaimed end use of the site is for a DWP material maintenance and storage yard. Approximately 88.5 acres or 71% of the three parcels is not proposed to be disturbed.

### **Location and Site Description**

The Cove Borrow Pit is vacant land that has been disturbed by DPW since the 1960s for various DPW projects and equipment storage. Natural vegetation or re-growth on-site consists of primarily sage scrub bush. The adjacent properties are vacant. Cove Road alignment is north of the mining site.

The Project site is located south of Cove Road, in the community of Lucerne Valley, approximately 10 miles east of the Town of Apple Valley. The three County owned parcels total approximately 124.5-acres (APN 0464-171-01; 0452-041-64; 0451-022-04) and are within the west part of San Bernardino County in portions of Sections 33 and 34, Township 5 North, Range 1 West, and Section 3 Township 4 North, Range 1 West. Elevations of the parcels range from 2,860 feet above mean sea level (amsl) along Cove Road to a high of approximately 3,160 feet amsl on the southwest corner of the southern parcel and 3,010 feet amsl on the southwest corner of the western parcel. Cove Road bisects the Project site to on the north within an assumed right of-width of 60 feet for an undesignated local road. The undisturbed portions of the Project site are mainly vegetated with sage scrub. The adjacent properties to the north, west, and southwest are predominantly vacant. An isolated rural residence is located to the south and one to the east.

The site is generally level rising approximately 60 feet from the north to the south with elevations ranging from 2,900 to 2,960 feet amsl. The planned hillside mining will range from 2,910 to 2,940 feet amsl.

### Mining

Mining operations will be undertaken over a period of up to 100 years following the permit effective date and extending until the end of 2120. An estimated 1,000 cy annually would be excavated on an intermittent basis over the course of the life of mine. The operational areas will be fenced as determined in the field with a combination of desert tortoise fencing and 4-strand wire according to the protocols in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009).

Mining will take place within two pit areas on 14.7 acres on the mostly undisturbed hillside slopes in the southwest portions of the site with a 3 horizontal to 1 vertical slopes (3H:1V) or 18° inclined slopes. A staging area will be located on two acres along Cove Road including material storage, equipment storage and parking. A 60-foot wide setbacks will be established along Cove Road from a 60-foot ight-of way (ROW) width. All remaining areas will have a setback greater than 50-foot.

Approximately 6.5 acres will be used as a shallow 2-foot deep storm water detention basin for run-off that moves northeast off the mined slopes and remainder of the site. Approximately 4 acres not to be further utilized are considered existing disturbance area and will be reclaimed. Refer to Figures 3 and Figure 4 for the Mine Plan and Mine Plan Cross Section, respectively.

Mining of the site is achieved with one loader, one excavator, and a dozer to break, move, and load material directly into single truck trailer or double truck trailers with capacity of up to approximately 10 to 25 cy (typical). A complete list of the typical equipment to be used on-site and for transport to various sites in the vicinity is included in Table 1. There will be no crushing, screening, or conveying conducted on-site. There will be no buildings or a scale on-site.

Mining of the site will be conducted from approximately 2,890 to 2,930 feet amsl in Pit 1A with a 20-foot deep pit to 2,910 to 2,940 feet amsl in Pit 1B. Pit 2 will be mined from approximately 2,885 feet amsl to 2,930 feet amsl with a pit depth of approximately 45 feet. The setbacks as described above will be maintained around the entire excavation area for safety. These setbacks will include desert tortoise and 4-strand wire exclusion fencing with warning signs on the outside edge of the property and secured gates. Access into the mining area will be from Cove Road via a 30 feet width road. Once off the Project site, the street-legal transport trucks will utilize Cove Road.

#### Reclamation

The Mine Reclamation Plan 2020M-04 (Exhibit A) details the methods and procedures to be employed to reclaim all mining-related disturbed areas as shown in the Reclamation Plan Map. As with all surface mines subject to California's Surface Mining and Reclamation Act of 1975, Public Resources Code Section [PRC] 2710 et seq. and California Code of Regulations Section 3500 et seq. ("SMARA"), an inspection monitoring program and financial assurances will be required to ensure reclamation is completed in compliance with SMARA and in accordance with the approved Reclamation Plan.

Reclamation is designed to minimize environmental impacts from mining operations by reclaiming the site into a beneficial, usable, post-mining condition. End uses include a maintenance yard and open space/habitat or re-establishing the prior land use. Mining features and all disturbed areas will be reshaped and revegetated to minimize aesthetic and biological impacts and to eliminate hazards to public health and safety.

Reclamation of the mine will be undertaken at the completion of mining operations. Any over-steepened slopes will be partially backfilled or recontoured to 3H:1V. Fill material will be excess material pushed up onto slopes to create 3H:1V. The fill will be compacted by tracking the dozer over the slope to achieve necessary compaction consistent with final end use of DWP material maintenance and storage yard. Any rock or gravel on the roads to be reclaimed will be removed and used as fill in the pit area. Final graded slopes will be revegetated. The pit floor, storage areas, and access roads are to remain. The re-contoured slopes will be seeded with the recommended seed mix in this Reclamation Plan. Refer to Figure 5 for the Reclamation Plan.

### **ANALYSIS**

### Land Use Compatibility

The Cove Borrow Pit is located within the Lucerne Valley Community Plan, Agricultural designation, with a forty-acre minimum lot size (LV/AG-40) Land Use District. This zoning district allows for mineral resource development (mining), subject to approval of a Mining CUP by the County Planning Commission, provided that the project meets applicable County Development Code requirements and findings. All properties adjacent to and within the vicinity of the Project are also zoned LV/AG-40 and Resource Conservation (RC). The future Countywide Plan, Policy Plan Land Use Category for the

County of San Bernardino / Cove Borrow Pit PROJ-2020-00017; APN: 0464-171-01 Planning Commission Hearing: November 19, 2020

Project site will be Resource Land Management (RLM). The resolution adopting the Countywide Plan authorizes an applicant to develop a property based on the current Land Use Zoning District until an updated Zoning Map is approved. Therefore, the Project will be consistent with both the current General Plan and future Countywide Plan, Policy Plan. Project-specific Conditions of Approval have been included as Exhibit B.

<u>Adjacent Land Uses:</u> There are no residential uses in the site's vicinity (See Figure 2). Protective mitigation measures as described below are included in the Mine Reclamation Plan and the Project Conditions of Approval.

<u>Truck Traffic and Dust Control:</u> Truck traffic is anticipated at a rate of approximately 50 loads per year based on street-legal 20 cy trucks and DPW project demand. The trucks will travel on Cove Road to various DPW project sites. To minimize dust generation, a water truck will be retained for use during excavations and loading of haul trucks. The mine operator shall water spray working mine areas and access roads onsite on a regular basis and more frequently as needed during windy conditions. Water used for dust control shall be obtained from a local water supplier via a water truck (source of water attached to application). Un-surfaced haul road and access road will also have dust controlled with or covered with road base material as needed.

<u>Noise and Vibration:</u> The County has established noise and vibration standards designed to protect adjacent land uses that will apply to the Project.

<u>Water Consumption:</u> Water use on-site will be utilized to minimize fugitive dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 4,000 gallons of water a day (6 to 20 days a year) may be used for dust suppression activities. The 4,000-gallon water truck will fill at a Mojave Water Agency designated hydrant. It is not anticipated that there will be any excess water from the dust control procedures; therefore, no recycling is required or planned. The County has a memorandum of understanding (MOU) with the Mojave Water Agency relative to obtaining water for dust suppression activities.

### **California Environmental Quality Act**

An Initial Study (IS) has been completed in compliance with the California Environmental Quality Act (CEQA). The IS concludes that the Project will not have a significant adverse impact on the environment with the implementation of recommended Conditions of Approval and mitigation measures contained in the IS, which have been incorporated in the Conditions of Approval (Exhibit D). A Notice of Availability/Notice of Intent (NOA/NOI) to adopt a Mitigated Negative Declaration (MND) was advertised and distributed to initiate a 30-day public comment period, which concluded on July 7, 2020. A copy of the IS/MND is attached as Exhibit E. No comments were received during the IS/MND comment period. Following are summaries of topics addressed in the IS/MND.

<u>Biological Resources:</u> On July 2019, Jericho Systems Incorporated (Jericho) prepared a Biological Resources Assessment and Jurisdictional Delineation for the proposed Project (available at the County offices for review). Jericho describes the Project site as being relatively undisturbed, comprised of native shrubs with a low-lying understory of native and nonnative herbaceous species. Vegetation onsite is dominated by shrubs and herbaceous understory closely corresponding with Sawyer et al.'s white burr sage scrub (Ambrosia dumosa shrubland alliance). Other native species that are conspicuous in the shrub layer within the survey area include iodine bush (Allenrolfea occidentalis), burrobrush (Ambrosia salsola), Mormon tea (Ephedra nevedensis) and California goldenbush (Ericameria lindleyi). The plant community is extremely diverse with a total of 70 species observed, 18 of which were shrub species and only six nonnative species.

Jericho obtained data regarding biological resources through field investigations and review of databases containing records of reported occurrences of state and federally listed species or otherwise sensitive species and habitats that may occur within the vicinity of the Project site. These databases include the California Natural Diversity Database (CNDDB), California Native Plant Society Electronic Inventory (CNPSEI) databases, and the Calflora Database, among others. The database searches identified 32 sensitive species (20 plants and 12 animals) within the Lucerne Valley, Fifteenmile Valley, Apple Valley South, and White Horse Mountain USGS 7.5-minute series quadrangles.

No state and/or federally listed threatened or endangered species, or other sensitive species were observed on-site during the field surveys; however, Jericho noted that there is some potentially suitable habitat in the undisturbed areas of the borrow pit and adjacent to the site for sensitive species. Therefore, habitat suitability assessments were conducted within the Project site for golden eagle (Aquila chrysaetos) [GOEA], desert tortoise (DT), burrowing owl (BUOW), and Mohave ground squirrel (MGS).

As a result of the habitat suitability assessment, Jericho noted that one occurrence of MGS from the 1920's is documented southeast of the Project site. MGS are thought to have been extirpated east of the Interstate 15, south of Barstow and west of Highway 247. The Project site occurs outside the established current range for the species and no further discussion or investigation is warranted. Additionally, Jericho concluded that the proposed work area would be outside of the direct line of site and over 2,500 feet away from nesting GOEA. However, since the south half of the project boundary provides potentially suitable nesting habitat for GOEA, Mitigation Measures BIO-1 and BIO-2 shall be implemented to avoid impacts to nesting GOEA during operations of the borrow pit.

<u>Tribal Consultation:</u> On October 22, 2018, the County initiated environmental review under CEQA for the proposed Project. On October 22, 2018, the County Department of Public Works sent project notification letters to the following California Native American tribes, which had previously submitted general consultation request letters pursuant to 21080.3.1(d) of the Public Resources Code:

- San Manuel Band of Mission Indians
- Twentynine Palms Band of Mission Indians

Each recipient was provided a brief description of the proposed Project and its location, the lead agency contact information, and a notification that the tribe has 30 days to request consultation. The 30-day response period concluded on November 22, 2018.

Below is a summary of responses received by the County Department of Public Works and subsequent consultation actions and results:

- Twenty-Nine Palms Band of Mission Indians: November 20, 2018; No known Tribal cultural resources on site. Tribe requested copies of cultural resources report prior to concluding consultation. Cultural Resources report forwarded to Tribe on November 4, 2019. Consultation closed.
- San Manuel Band of Mission Indians: November 19, 2018; No known Tribal cultural resources on site. Tribe requested incidental find language be added to conditions of approval. Copies of cultural resources report were also forwarded to the Tribe on November 4, 2019. Consultation closed.

San Manuel Band of Mission Indians requested incidental finds measures be added to the proposed Project. Specific measure language was agreed upon on November 19, 2018 (Mitigation Measures TCR-1 through TCR-4 below) and consultation was closed.

Planning Commission Hearing: November 19, 2020

### Mine Permitting under SMARA

Mine permitting and reclamation is regulated by Chapter 88.03 of the County's Development Code, which incorporates SMARA. The County is the identified "lead agency" (PRC Section 2728) with the State Mining and Geology Board, and has been designated as having a state-certified surface mining and reclamation ordinance (PRC Section 2774.3), and has the principal responsibility for administering SMARA.

### **Findings**

The required Findings (Exhibit D) for approval of a Mining CUP, pursuant to Development Code Section 85.06.040 and Section 88.03.060(k), have been made. The Project is consistent with all applicable land use policies and regulations of the County's General Plan and Development Code with the implementation of the required Conditions of Approval through the Project approval process.

### **Public Input**

In response to a Project Notice sent to reviewing agencies and adjacent property owners. The Division of Mine Reclamation and Department of Fish and Wildlife (CDFW) stated in their comments that the MND lacked analysis of potential biological impacts to special status species, Desert Tortoise, Mohave Ground Squirrel and burrow owl and recommended mitigation measures to reduce the impact. They also asked for a streambed alteration agreement to alter a noted dry lakebed.

Staff Response: Staff reviewed the comments with the environmental consultant who prepared the MND and determined that the comments and proposed mitigation measures were not necessary given that the Cove Borrow Pit is currently in operation and no new areas will be disturbed that will affect special status species, Burrowing Owls, Mohave Ground Squirrel, or Desert Tortoise. Lastly, the dry lakebed noted by CDFW, was determined to not meet the definition of waters of the U.S. due to the isolated nature of Lucerne Valley and is not subject to the Clean Water Act. No hydrophitic vegetation, hydric soils and/or wetland hydrology, are present within the Project site. Therefore, no wetlands were identified during the survey. The dry lakebed itself could be subject to the California Fish and Game Code Section 1600 regulations that fall under the jurisdiction of the CDFW, but the Project will not encroach on this area. No impact is anticipated. Responses to comments are attached. (Exhibit F).

### **RECOMMENDATION:** That the Planning Commission:

- 1) **ADOPT** the Mitigated Negative Declaration (Exhibit E);
- 2) **APPROVE** the Mining Conditional Use Permit and Reclamation Plan 2020M-04 (Exhibit A) to permit mineral extraction on 36-acres of a 124.5-acre property for a 100 year operation period, subject to the Conditions of Approval (Exhibit B);
- 3) **ADOPT** the Findings as contained within the staff report (Exhibit D);
- 4) **DIRECT** staff to file the Notice of Determination.

### **ATTACHMENTS:**

Exhibit A: Reclamation Plan
Exhibit B: Conditions of Approval
Exhibit C: Biological Report

Exhibit D: Findings

Exhibit E: Initial Study / Mitigated Negative Declaration
Exhibit F: Comment Letters and Responses to Comments

## **EXHIBIT A**

Reclamation Plan

### MINE RECLAMATION PLAN FOR THE COVE BORROW PIT

Prepared For:
San Bernardino County:

Department of Public Works 825 E. Third Street San Bernardino, CA 92415

Submitted To:
County of San Bernardino

Land Use Services 385 North Arrowhead Avenue, 1<sup>st</sup> Floor San Bernardino, California 92415

> Prepared By: Lilburn Corporation

1905 Business Center Drive San Bernardino, California 92408

November 2020

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### **APPENDICIES**

- Biology Study/Revegetation Plan; Jericho Systems July 2019
- 2 Historical/Archaeological Resources Survey Report, September 2019 (not available for public review)
- Paleontological Resources Assessment Report, September 2019 (not available for public review)

### **MAP SHEETS (attached)**

- 1 Cove Quarry Mine Plan
- 2 Cove Quarry Reclamation Plan

### 1.0 MINE PLAN

San Bernardino County, Department of Public Works (DPW) is submitting an application for a Mine Reclamation Plan (Plan) for the Cove Quarry. This application is to annually provide up to 1,000 cubic yards (cy) of material for various roads, culverts, and other DPW sites for annual maintenance and/or emergency repair due mainly to storm events.

The proposed project site is located south of Cove Road, in the community of Lucerne Valley, approximately 10 miles east of the Town of Apple Valley. The three County owned parcels are approximately 124.5-acres (APN 0464-171-01; 0452-041-64; 0451-022-04) and are within the west part of San Bernardino County in portions of Sections 33 and 34, Township 5 North, Range 1 West, and Section 3 Township 4 North, Range 1 West. Elevations of the parcels range from 2,860 feet above mean sea level (amsl) along Cove Road to a high of approximately 3,160 feet amsl on the southwest corner of the southern parcel and 3,010 feet amsl on the southwest corner of the western parcel. Cove Road bisects the project site to on the north within an assumed right-of-width of 60 feet for an undesignated local road. The undisturbed portions of the project site are mainly vegetated with sage scrub. The adjacent properties to the north, west, and southwest are predominantly vacant. An isolated rural residence is located to the south and one to the east.

This site will provide construction material in the vicinity to reduce transportation costs and fuel usage from transporting material from more distant material sources. The material will be transported to various DPW maintained facilities and sites for annual maintenance and/or emergency repairs as needed. The Site has been used by the DPW since the 1960s. Approximately 17.5 acres on the level areas along Cove Road have been disturbed by past grading and material storage uses. Refer to Figures 1 and 2 for a Regional Map and Vicinity Map, respectfully.

The purpose of this application is to permit the Cove Quarry on approximately 36 acres for a 100-year period to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to mine 14.7 acres on the mostly undisturbed hillside slopes in the southwest portions of the site to annually remove up to 1,000 cubic yards (cy). A 5-acre Staging Area, a 2-acre Processing Area and a 6.5-acre stormwater detention basin (two feet deep) are also proposed. All active mining areas will be south of Cove Road. No activity is planned to the northeast of Cove Road. The reclaimed end use of the site is for a DWP material maintenance and storage yard. Approximately 88.5 acres or 71% of the three parcels will not be disturbed.

**Landowner:** County of San Bernardino

825 E. Third Street

San Bernardino, CA 92415

**Operator**: San Bernardino County:

Department of Public Works

825 E. Third Street

San Bernardino, CA 92415

909-387-8109

Brendon Biggs; bbiggs@dpw.sbcounty.gov

**Representative:** Lilburn Corporation

1905 Business Center Drive San Bernardino, California 92408

909-890-1818

Frank Amendola; <a href="mailto:frank@lilburncorp.com">frank@lilburncorp.com</a>

**General Plan Designation:** Agriculture (AG) – 40 acres per residence

<u>APN:</u> 0464-171-01; 0452-041-64; 0451-022-04; SE ¼ of Section 33 and SW ¼ of Section 34, T5N, R1W and NE ¼ of Section 3, T4N, R1W

Parcel Size: Approximately 124.5 acres

Mine Area: approx. 36 acres

Estimate Operating Life: 100 years from County approval (assumed January 1, 2020).

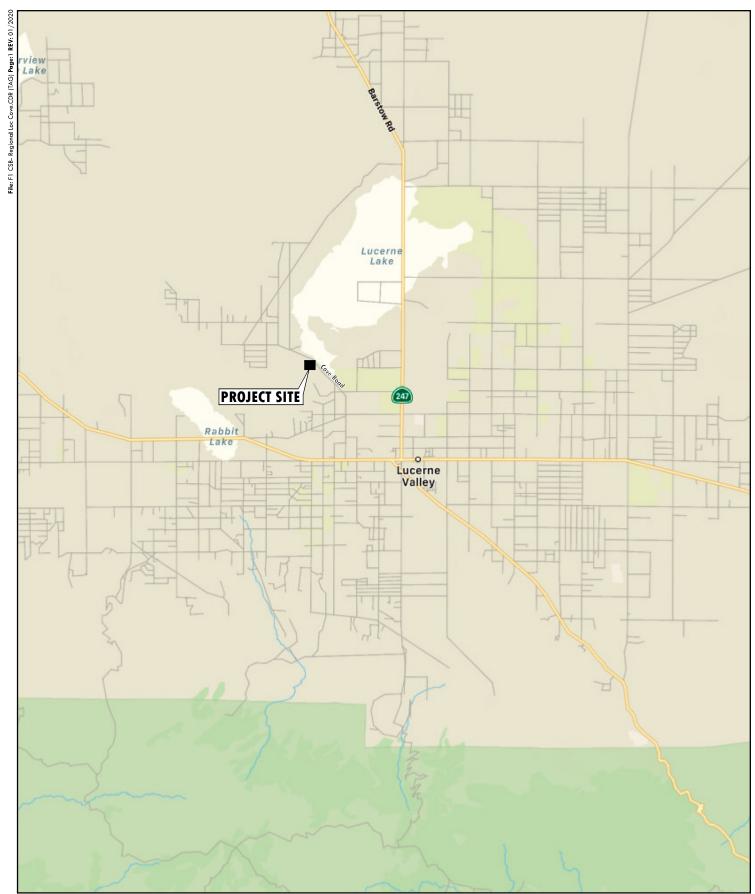
**Estimated Operations Termination Date:** December 31, 2119 (with approval by December 2019) or 100 years from date of County approval

<u>Area to be Reclaimed:</u> 18.7 acres (active quarry areas 14.7 acres; 4 acres of existing disturbance).

Estimated Reclamation Completion: December 31, 2120

**Reclaimed End Use:** DPW Maintenance Yard

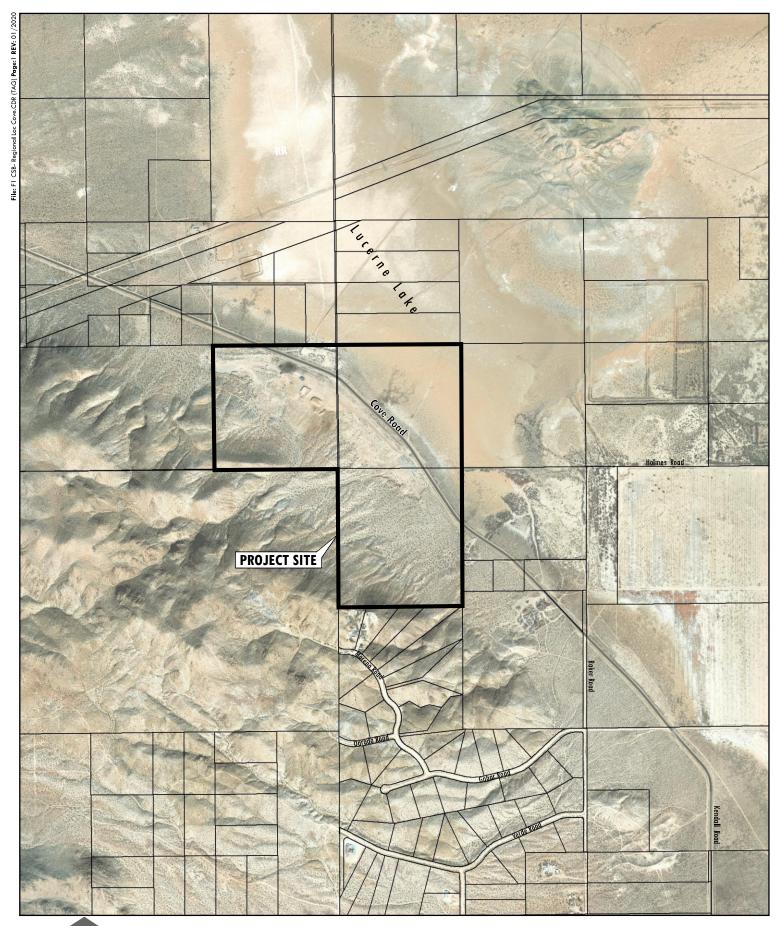
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### **REGIONAL LOCATION**

COVE ROAD MINE PLAN
County of San Bernardino, California
FIGURE 1





### **PROJECT VICINITY**

**COVE BORROW PIT** 

County of San Bernardino, California

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### 1.1 MINING OPERATIONS

Mining operations will be undertaken over a period of up to 100 years beginning in early 2020 and extending until the end of 2119. An estimated 1,000 cy annually would be excavated on an intermittent basis over the course of the life of mine. The operational areas will be fenced as determined in the field with a combination of desert tortoise fencing and 4-strand wire according to the protocols in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009).

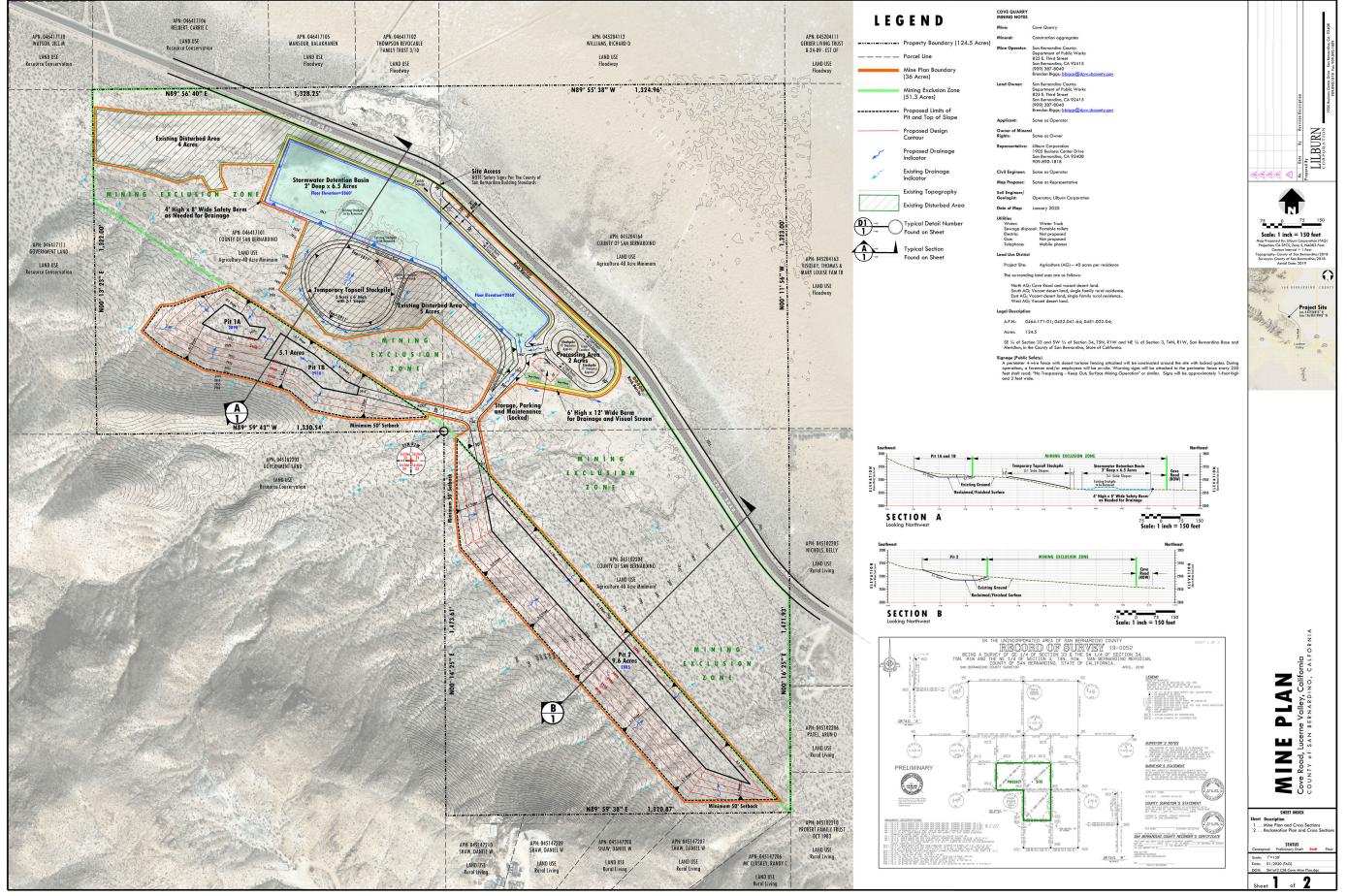
Mining will take place in two pit areas on 14.7 acres on the mostly undisturbed hillside slopes in the southwest portions of the site with a 3 horizontal to 1 vertical slopes (3H:1V) or 18° slopes. Pits 1A and 1B will be mined on approximately 5.1 acres in the southwest portion of the west half of the site. Pit 2 would be developed on 9.6 acres in the central portion of the south half with 0.5 acre of connecting and access roads. A Staging Area will be located on two acres along Cove Road including material storage, equipment storage and parking. 60-foot wide setbacks will be established along Cove Road from a 60-foot ROW width. All remaining areas will have a setback greater than 50-foot.

Approximately 6.5 acres will be used as a shallow 2-foot deep storm water detention basin for run-off that moves northeast off the mined slopes and remainder of the site. Approximately 4 acres not to be further utilized are considered existing disturbance area and will be reclaimed. Refer to Figures 3 and Figure 4 for the Mine Plan and Mine Plan Cross Section, respectively.

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Mining of the site is will be conducted from approximately 2,890 to 2,930 feet amsl in Pit 1A with a 20-foot deep pit to 2,910 to 2,940 feet amsl in Pit 1B. Pit 2 will be mined from approximately 2,885 feet amsl to 2,930 feet amsl with a pit depth of approximately 45 feet. Mining will be conducted into the hillside at a 3H:1V overall slope. The setbacks as described above will be maintained around the entire excavation area for safety. These setbacks will include desert tortoise and 4-strand wire exclusion fencing with warning signs on the outside edge of the property and secured gates. Access into the mining area will be from Cove Road via a 30 feet width road. Once off the project site, the street-legal transport trucks will utilize Cove Road.

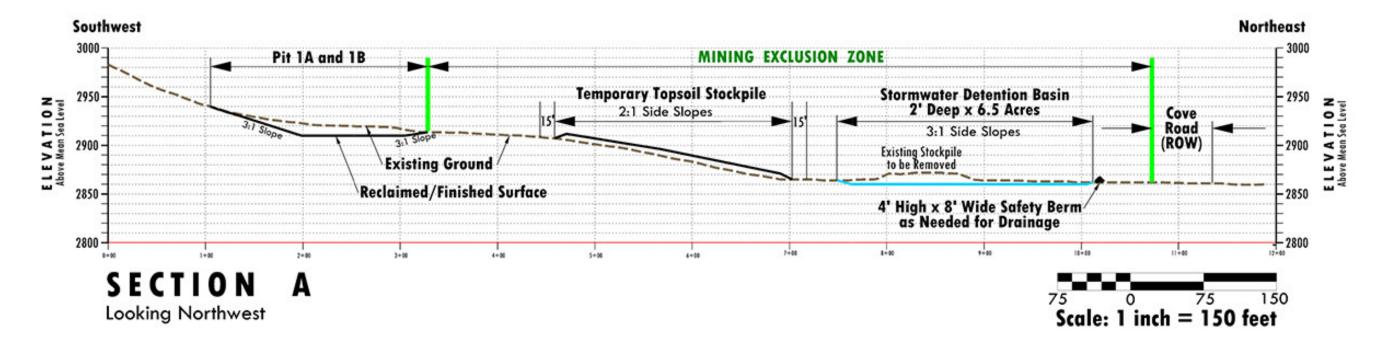
Truck traffic is anticipated at a rate of approximately 50 loads per year based on street-legal 20 cy trucks and DPW project demand. The trucks will travel on Cove Road to DPW projects. To minimize dust generation, a water truck will be retained for use during excavations and loading of haul trucks. The mine operator shall water spray working mine areas and access roads onsite on a regular basis and more frequently as needed during windy conditions. Water used for dust control shall be obtained from a local water supplier via a water truck (source of water attached to application). Un-surfaced haul road and access road will also have dust controlled with or covered with road base material as needed.

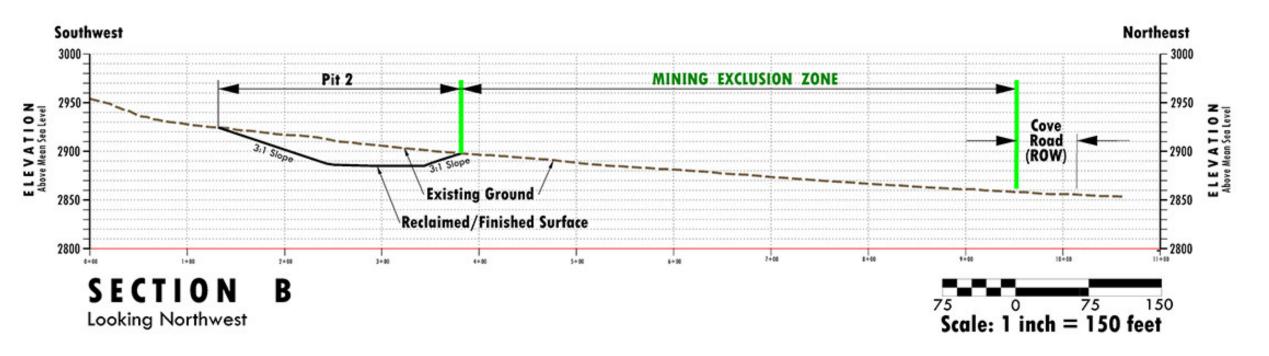




MINE PLAN
COVE ROAD MINE PLAN
County of San Bernardino, California

FIGURE 3





### **CROSS SECTIONS**

COVE ROAD MINE PLAN
County of San Bernardino, California

Table 1
Mobile Mine and Transport Equipment (Typical)

Equipment Type	Typical Number	Hours/day	Purpose
Dozer	1	4	Excavate and loosen material. Access construction and maintenance
2-5 Axle Dump / Haul Trucks	2	4	Transportation of material
Excavator	1	4	Excavate and load material into trucks.
Loader	1	4	Excavate and load material into trucks.
Water Truck	1	4	Water for dust control on mining areas, haul roads, and stockpiles.

Source: DPW July 2019

Note that equipment listed is typical and makes and models will vary.

Site operations will be conducted as needed intermittently primarily from 5:30 am till 8 pm (daylight hours only), up to 6 days per week; Monday through Saturday. Occasionally operations may be conducted on Sundays depending on possible emergency road repair, construction and maintenance needs. All refuse shall be disposed into approved trash bins and removed by the operator or a commercial vendor. Portable toilets will be used on-site when in operation and serviced by a commercial vendor. Bottled water will be provided to employees.

### 1.2 MINE WASTE

Although portions of the site have been disturbed in the past, those areas with some top soil as well as undisturbed mining areas will have the top one-foot of surface material pushed into the storage stockpiles or perimeter berms shown on the mine plan. No overburden or waste material is expected; therefore, no method is required or planned for handling or storage of mine waste.

There will be no imported waste materials or chemicals brought to the project site or stored onsite besides fuel and equipment maintenance fluids during active mining periods. Maintenance and fueling will be conducted by a mobile maintenance truck if needed and Best Management Practices (BMPs) will be implemented. All used fluids will be removed from the equipment and from the site following standard regulations. No fuel or used fluids will be stored on-site.

### 1.3 ORE PROCESSING

The mined material will be loaded directly into trucks for transport to DWP Sites. No crushing or screening or any process plant facilities are utilized on-site. There is no need for on-site diesel-powered electricity or commercial power.

### 1.4 PRODUCTION WATER

Water use on-site will be utilized to minimize fugitive dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 4,000 gallons of water a day (6 to 20 days a year)

may be used for dust suppression activities. The 4,000-gallon water truck will fill at a Mojave Water Agency designated hydrant. It is not anticipated that there will be any excess water from the dust control procedures; therefore, no recycling is required or planned. The County has a memorandum of understanding (MOU) with the Mojave Water Agency.

### 1.5 EROSION AND SEDIMENTATION CONTROL

DPW is required to comply with Statewide National Pollutant Discharge Elimination System (NPDES) and preparing and implementing a Storm Water Pollution Protection Plan (SWPPP) including applicable BMPs. The control of drainage, erosion, and sedimentation of the mine site will primarily be conveyed into a storm water detention basin and with implementing the following primary BMPs as applicable:

- Limiting surface disturbance to the minimum area required for active operations;
- Monitoring erosion on slopes and implementation of one or more soil stabilization practices as applicable for the site such as: earthen berms or dikes; silt fence; fiber rolls; straw bales; gravel bags; sediment basin(s); and straw mulch.
- Stabilizing disturbed areas through grading slopes to 3H:1V; and
- After project completion final revegetation of slopes will be by seeding or hydroseeding with native species.

The final slopes will gently slope at 3H:1V upward 30 feet from the north to south. There are no drainage or run-off channels that will be affected by the mining. Principally only direct precipitation will affect the site from the hillside slopes. The pits are designed with a natural grade towards the northwest to collect any run-off from the slopes in that area that will act as a sediment or retention basin (percolation basin). The slopes are designed at very gentle 3H:1V that would reduce possible slope erosion and runoff channeling down the slopes. In addition, a 6.5-acre a shallow 2-foot deep storm water detention basin will be developed to collect any run-off that may move off the slopes and other portions of the site. There will be no run-off away from the site. All precipitation will be collected within the pit's detention basin or the 6.5-acre storm water detention basin and allowed to evaporate or percolate.

During the course of mining and the final design of the 3H:1V slope contouring, some erosion may occur during heavy rainfall on the slopes. Erosion sediment caused by rainfall will be retained at the bottom of the pit and/or detention basin and rills or channels backfilled. Any water retained within the pit and/or detention basin will not impact adjacent properties or local road due to its containment.

After each major storm event or at annually, any final slopes will be visually inspected to determine if any substantial erosion is evident such as sheet, rill or gully erosion. A major storm event is defined as precipitation totals of 0.5 inches per 24-hour period. Any rills or gullies in excess of 8 square inches in cross sectional area and are more than 10 linear feet located on final slopes shall be arrested using methods listed above.

Revegetation will be used for the long-term control of erosion. Access points and mined surfaces will be water sprayed as necessary to reduce wind erosion during operations.

### 1.6 BLASTING

There will be no blasting on this project site, therefore, no explosives will be used or stored on site.

### 2.0 RECLAMATION PLAN

### 2.1 LAND USE

The Cove Quarry is vacant land that has been disturbed by DPW since the 1960s for various DPW projects and equipment storage. Natural vegetation or re-growth on-site consists of primarily sage scrub bush. The adjacent properties are vacant. Cove Road alignment is north of the mining site.

The site is generally level rising approximately 60 feet from the north to the south with elevations ranging from 2,900 to 2,960 feet amsl. The planned hillside mining will range from 2,910 to 2,940 feet amsl. The General Plan Land Use designation is AG Agriculture – 40 acres per residence. Mining is an allowable use with approval of a conditional use permit and a reclamation plan.

The surrounding land uses are as follows:

North AG: Cove Road and vacant desert land.

AG; Vacant desert land, single family rural residence.

East AG; Vacant desert land, single family rural residence.

West AG; Vacant desert land.

### 2.2 VISIBILITY

South

The mine site is located south of Cove Road, in the community of Lucerne Valley, east of the Town of Apple Valley. Access to the site will be from existing Cove Road, a paved public road. The Site has been partially disturbed on approximately 17.5 acres and has been used in past to provide material to various DPW-maintained roads and other sites since the 1960s. Mining will include hillside mining at a natural slope of 3H:1V. There will be no process plants on-site.

### 2.3 VEGETATION

For a complete description of the onsite vegetation, refer to the Biological Resource Assessment prepared by Jericho Systems included in Appendix 1 of this Plan.

The Project site vegetation is dominated by shrubs and herbaceous understory creosote bush-white burr sage scrub (*Larrea tridentate-Ambrosia dumosa* shrubland alliance). The Project site includes approximately 17.5 disturbed acres used for DWP material maintenance and storage yard, occupying mostly flat to gently sloped terrain along the south side of Cove Road. Disturbances on site are primarily due to the minor material removal and staging operations that have been associated with County road.

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Other native species that are conspicuous in the shrub layer within the survey area include iodine bush (*Allenrolfea occidentalis*), burrobrush (*Ambrosia salsola*), Mormon tea (*Ephedra nevedensis*) and California goldenbush (*Ericameria lindleyi*.). The plant community is extremely diverse with a total of 70 species observed, 18 of which were shrub species and 6 nonnative species.

No State and/or federally listed threatened or endangered species or otherwise sensitive species were observed on site during the field surveys.

### 2.4 WILDLIFE

For a complete description of the onsite vegetation, refer to the Biological Resource Assessment prepared by Jericho Systems included in Appendix 1 of this Plan.

#### Desert Tortoise

The result of the protocol desert tortoise survey was that no desert tortoise individuals or sign including desert tortoise burrows, carcasses, scat, courtship rings or drinking depressions were detected within the survey area. Therefore, desert tortoise are currently considered absent from the Project site. However, as there is suitable creosote bush scrub and allscale scrub habitat on site and there are documented desert tortoise populations in the vicinity of the Project area, desert tortoise movement or occupation could potentially occur in the future.

Therefore, the following precautionary measures are recommended to avoid potentially injuring or killing any desert tortoise that may wander on site during operations of the quarry within suitable desert tortoise habitat:

- Desert tortoise exclusion fence shall be installed around the perimeter of active mine areas with required biological monitoring during fence construction and mining activities outside fencing;
- A qualified biologist shall provide an Environmental Awareness Education Presentation to workers on an as-needed basis for desert tortoise, nesting birds, burrowing owl, and golden eagle;
- Vehicle speeds shall not exceed 20 miles per hour on access enforced by speed limit signs and employee training program;
- No cross-country travel with motorized vehicles outside of the project area or access roads by project personnel shall be permitted;
- Workers shall inspect for desert tortoise under vehicles prior to moving them;
- No firearms, dogs or other pets shall be allowed within the project area; and
- All trash and food items shall be promptly contained within closed, common ravenproofed containers and will be removed weekly from the project site to reduce the attractiveness of the area to common ravens

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Desert tortoise are protected by applicable State and/or federal laws, including but not exclusive to the California Endangered Species Act (CESA) and federal Endangered Species Act (ESA). As such, if a desert tortoise is found on-site during work activities, all activities likely to affect the animal(s) should cease immediately and regulatory agencies should be contacted to determine appropriate management actions.

### Burrowing Owl

Burrowing owl (BUOW) is not listed under the State or federal ESA but is considered both a State and federal species of special concern (SSC). The BUOW is a migratory bird protected under the Migratory Bird Treaty Act (MBTA) and by State law under the California Fish and Game Code.

No evidence of BUOW; individuals or sign including pellets, feathers or whitewash were observed on-site. Therefore, BUOW are currently considered absent from the Project site. However, as there is suitable crossote bush scrub and allscale scrub habitat on site and there are documented BUOW occurrences to the southeast of the Project area, future BUOW occupation could potentially occur. The following precautionary measure is recommended to avoid potential impacts to BUOW prior to new disturbance:

• A pre-construction survey shall be conducted to verify the continued absence of BUOW species in the area of operations. If burrowing owl or an occupied burrow is observed on-site during the survey, avoidance of occupied burrows during the nesting season (February 1 through August 31) with a 600-foot setback is required by CDFG.

### Golden Eagle

The active quarrying area will be outside of the direct line of site and over 2,500 feet away from nesting golden eagle (GOEA). Project-related impacts to GOEA will be less than significant and no direct impacts will result. As the south half of the Project boundary provides potentially suitable nesting habitat for GOEA the following precautionary measure is recommended to avoid potential impacts to nesting GOEA during operations of the quarry.

- A pre-construction survey performed to verify the continued absence of this species in the area of operations; and
- If GOEA are found, consult with CDFW to determine avoidance restrictions during the nesting season for this species which is February 1 August 31.

### Nesting Birds

The federal MBTA provides protection for nesting birds that are both residents and migrants whether or not they are considered sensitive by resource agencies. The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). The USFWS, in coordination with the CDFW administers the MBTA. CDFW's authoritative nexus to MBTA is provided in FGC Sections 3503.5 which protects all

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birds of prey and their nests and FGC Section 3800 which protects all non-game birds that occur naturally in the State.

Vegetation suitable for nesting birds does exist within and adjacent to the Project area. Most birds are protected by the MBTA. In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season, which is generally January/February to August/September, and by conducting a worker environmental awareness training. However, if all work cannot be conducted outside of nesting season, a Project-specific Nesting Bird Management Plan can be prepared to determine suitable buffers.

• Preconstruction Nesting Bird Surveys are recommended prior to new land disturbing activities that fall within the bird nesting season (April 15 – August 31). The nesting bird surveys would serve to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the biologist has determined the young birds have successfully fledged and the nest is inactive.

### 2.5 RECLAMATION

The intent of the California Surface Mining and Reclamation Act of 1975 as amended (SMARA) is to "maintain an effective and comprehensive surface mining and reclamation policy with regulation of surface mining operations so as to assure that: (a) adverse environmental effects are prevented or minimized and that mined lands are reclaimed to a usable condition which is readily adaptable for alternative uses; (b) the production and conservation of minerals are encouraged, while giving consideration to values relating to recreation, watershed, wildlife, range and forage, and aesthetic enjoyment; and (c) residual hazards to the public health and safety are eliminated" (Section 2712).

Article 9, Section 3700 of SMARA states the following: "Reclamation of mined lands shall be implemented in conformance with standards in this Article (Reclamation Standards). The standards shall apply to each surface mining operation to the extent that:

- (1) they are consistent with required mitigation identified in conformance with CEQA; and
- (2) they are consistent with the planned or actual subsequent use or uses of the mining site."

The objectives of this Reclamation Plan are to:

- Eliminate or reduce environmental impacts from mining operations;
- Reclaim in a usable condition for post-mining end uses which will be DWP material maintenance and storage yard;

- Reshape mining features and revegetate disturbed areas to minimize aesthetic and biological impacts; and
- Reclaim the site as necessary to eliminate hazards to public health and safety.

Reclamation of the mine will be undertaken at the completion of mining operations. Any over-steepened slopes will be partially backfilled or recontoured to 3H:1V. Fill material will be excess material pushed up onto slopes to create 3H:1V. The fill will be compacted by tracking the dozer over the slope to achieve necessary compaction consistent with final end use of DWP material maintenance and storage yard. Any rock or gravel on the roads to be reclaimed will be removed and used as fill in the pit area. Final graded slopes and the 4-acre existing disturbance area in the northwest will be revegetated and reclaimed as open space. The pit floor, storage areas, processing area, and access roads are to remain to be used as a County Service Yard. The recontoured slopes will be seeded with the recommended seed mix in this Reclamation Plan. Refer to Figure 5 for the Reclamation Plan

### 2.6 REVEGETATION

The revegetation plan will implement a series of activities to revegetate portions of the site after completion of mining operations. All slopes (within Pit 1 and Pit 2) will be reclaimed and revegetated. The project site is a relatively barren environment due to past grading, lack of topsoil and the extreme hot temperatures and very dry conditions. Daytime temperatures average over 100° F. from May through September and annual rainfall is less than 6 inches.

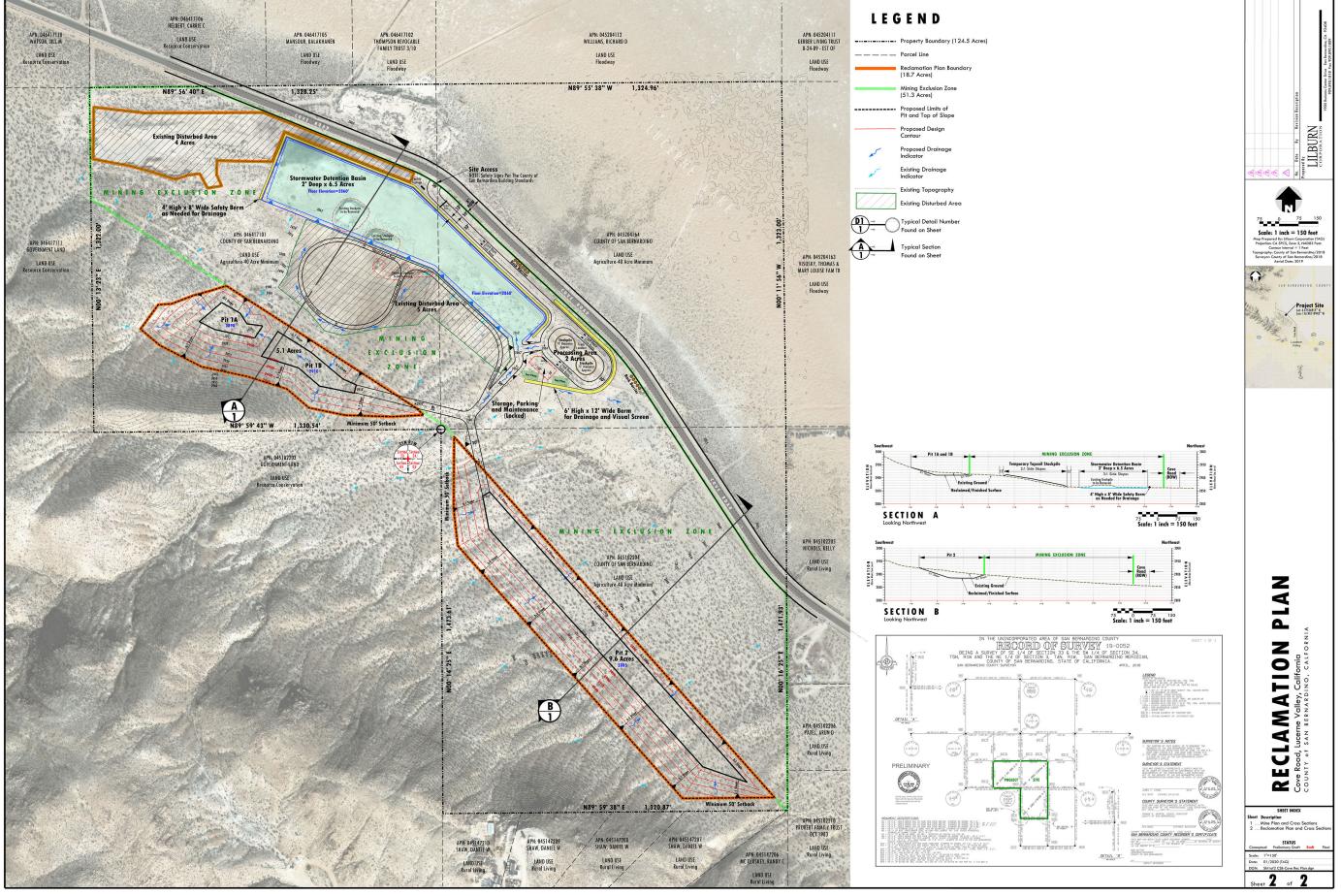
Physical reclamation procedures will include regrading to achieve planned slopes of 3H:1V as needed; ripping compacted surfaces to a depth of about 1.5 feet to hold moisture; adding available stockpiled surface material containing banked seeds that will be spread out evenly over the site to a depth up to one-foot deep; seeding with commercial available native seeds; and staking or flagging reclaimed areas to eliminate additional disturbance. Islands method, as discussed in the Revegetation Plan is no longer an option as the end use will be a County material maintenance and storage yard. Only the slopes are to be revegetated.

#### Baseline Data

Jericho Systems prepared a *Revegetation Plan* and collected baseline vegetation data for Cove Borrow Pit. The baseline data included detailed plant diversity, density, and richness information for use in the revegetation plan. This report is included in Appendix 1, August 2019. The site consists primarily of shrubs.

Jericho established plant plots in undisturbed portions to sample and record existing plant occurrences per SMARA recommendations. The revegetation effort will focus on the perennial pioneer shrubs, herbs, and annuals that aid in providing organic material, holding moisture, and breaking up the surface.

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Source: Lilburn Corp., 01/2020 (TAG).

LILBURN
CORPORATION

Property Line
Top of Slope
Proposed Contour
Desert Tortoise Fence

**Existing Contour** 

### **RECLAMATION PLAN**

COVE ROAD MINE PLAN
County of San Bernardino, California

Throughout the project area, absolute shrub cover is open. Average absolute shrub cover within the sample area measured approximately 17%. Average shrub density measured 4.2 shrubs per 100 square meter (m²) plot. A total of 27 shrub species were observed to occur within the site boundaries and 7 within the sample areas. Complete data tables are included in Appendix 1.

Herbaceous cover was nearly identical to shrub cover at 16 % percentage of the ground surface covered by plant canopies (ground soil cover - GSC) however, density was orders of magnitudes higher at 14.29 one-m<sup>2</sup>. Herbaceous species diversity on the site was higher than shrub diversity both within the site boundaries (67) and the sampled plots (17). Complete data tables are included in Appendix 1.

### Site Preparation

Upon termination of mining activities, the surfaces to be revegetated would be returned to their original land contours. Where possible, revegetation surfaces would be ripped to about 18 to 36 inches in depth to break up compacted areas and would be left in a textured or rough condition with shallow rills and furrows to create optimal conditions for revegetation with a native seed mix. Any available soils will be deposited in random "islands" up to one-foot thick and seeded.

Quick-growing, shallow-rooted species will be included in the seed mix to provide short-term erosion control. By providing short-term erosion control, more favorable growing conditions will be created for climax species that will provide long-term erosion control.

### Revegetation

Upon completion of mining, all disturbed slopes will be reclaimed and revegetated within one year. Any rock or gravel on the roads to be reclaimed will be removed and used as fill in the pit area. The slopes will be ripped to a depth of one foot parallel to the slope to break up compacted areas and aid in holding moisture and seeds. The stored surface material will be spread out evenly. The revegetation area will be seeded with a certified weed-free seed mix applied hydraulically (hydro-seeded). No invasive, non-native plant species will be used in the revegetation plan. Only native seeds tolerant to existing soil and rainfall conditions will be used.

Seeding will take place between November and March after the first substantial rains to take advantage of winter precipitation and eliminate the need for irrigation. Reclaimed areas will be clearly staked and flagged to eliminate additional disturbance. The seed mix will be applied by hydroseeding with a hydroseed slurry containing seed, natural fiber mulch, and organic tackifier. Although hydroseed mulch with seed can be carried and moved by flowing water, the mulch will help more of the seed stay in place and germinate compared to hand seeding.

A unique seed mix was developed for the creosote bush-white burr sage scrub habitat occurring in the project impact area. The recommended seed mix and seeding rates is outlined in Table 2 (below) and may be modified if a native observed species is not available during that year of revegetation and/or if seed costs are exorbitant (if seed is to be collected, it would be conducted by a qualified biologist). No species found on-site will be substituted for a species observed on-

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site but whose seed is not available at the time of revegetation. All seeds will be pure live seed in lbs/acre. Quick-growing, shallow-rooted species will be included in the seed mix to provide short-term erosion control. By providing short-term erosion control, more favorable growing conditions will be created for climax species that will provide long-term erosion control. The seed mix will be a subset of the native plants identified during surveys. Species recommended were the most encountered on the site and accounted for the majority of the vegetative coverage. Selection of species at the time of revegetation will be a balance of availability with some preference to species with low dispersibility. No species found on-site will be substituted for a species observed on-site but whose seed is not available at the time of revegetation

Table 2
Recommended Seed Mix
Cove Borrow Pit

Species	Life Form	Pure Live Seed Lbs/Acre
Ambrosia dumosa	shrub	1.00
Ephedra nevadensis	shrub	2.00
Ericameria linearifolia	shrub	0.10
Larrea tridentata Creosote	shrub	3.00
Lycium andersonii Anderson	shrub	0.10
Amsinckia tessellata	annual herb	0.25
Lasthenia gracilis	annual herb	0.25
Phacelia fremontii	annual herb	0.25
Chylismia claviformis Clavate	Annual, Perennial herb	0.10
Lupinus bicolor	Annual, Perennial herb	1.00
Melica imperfecta	Perennial grass	1.00
Stipa speciosa	Perennial grass	1.00
Dichelostemma capitatum	Perennial herb	0.25

Source: S&S Seeds, January 2020; Jericho Systems, December 2019 (typical depending on seed availability)

### Test Plots

In addition, the operator shall establish four 100-square meter test plots. The test plots will be located in the southeastern portion of the site on the shallow slopes, refer to Sheet 1 of the Mine Plan. The plot areas shall be representative of disturbed slope area with the following treatments: (1) ripping to depth of 1-foot with no seeding; and (2) ripping and covering with available topsoil and seeding. The test plots will be maintained and monitored, and tests conducted to refine revegetation techniques, species type, and seeding rates.

### *Irrigation*

The plant palette proposed for the mine site consists of primarily drought-tolerant plants species that should perform well without additional water. The average precipitation in the area should be sufficient for seed germination and root establishment of native species.

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Planting in the fall, prior to the winter rains, will be sufficient for seed germination and root establishment and reduce weed growth that is typically associated with supplemental irrigation. Scarification of the soil and the creation of surface rills and furrows will allow for maximized collection of water from rain events and run-off.

### **Fertilization**

No fertilization of the site is recommended. The native seeds used for revegetation will be tolerant of existing soil conditions. Additionally, the mechanical loosening, and creation of surface rills and furrows, will create conditions favorable for seed germination and root establishment by native species. Widespread use of fertilizers on desert sites appears to benefit non-native weedy species and not the native species sought as the goal of the revegetation plan (Clary, 1987).

### Weed Control

The purpose of the non-native invasive species control plan is to reduce or eliminate the occurrence of non-native invasive plant species that may invade the site where active and natural revegetation is taking place. Non-native invasive species (weeds) can compete with native plant species for available moisture and nutrients and consequently interfere with revegetation of the site.

The occurrence of non-native invasive species on-site shall be monitored by visual inspection quarterly for the first year and then annually thereafter. The goal is to prevent non-native invasive species from becoming established and depositing seeds in revegetated areas. No areas will be allowed to have more than 10 percent non-native invasive species ground cover. If inspections reveal that non-native invasive species are becoming or have become established on site, then removal will be initiated. Inspections shall be made in conjunction with revegetation monitoring.

Non-native vegetation will be removed using the most efficient method as determined by the site conditions. Removal may occur regularly in the first year and may consists of using mechanized equipment, hand tools and/or herbicide spraying. Herbicides may be applied to control an instance where there is an aggressive and extensive weed invasion on site. All non-native, invasive weeds will be removed before they produce seed or reach a height of 8 inches, whichever comes first. Once the weed growth is under control, weeding will take on a more selective approach and be completed with hand tools and such as hoes, shovels and rakes and spraying, if essential to meet success criteria.

Reports of inspections and weed control implementation shall be part of the annual revegetation monitoring and kept on file by the Operator.

### **Monitoring**

The Revegetation Monitoring Plan will be an ongoing effort to assess the results of revegetation on the disturbed areas of the site. The monitoring plan will be followed annually to monitor and

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assess completed revegetated areas (and test plots) and areas where revegetation is being planned or just beginning. A Revegetation Monitoring Report submitted by the operator to the County will be part of the overall compliance with conditions. Revegetated areas will be assessed utilizing success criteria with successful methods being implemented for future revegetation.

Revegetation efforts will be monitored annually for five years after seeding or until revegetation meets the success criteria and is self-sustaining. Revegetation observations will be summarized annually as part of the overall-monitoring program. This schedule may be revised depending on the results of the revegetation effort and the meeting of the success criteria. Monitoring and revegetation results will be reported to the County in an annual monitoring report.

### Success Criteria

The site consists of creosote bush-white burr sage scrub with minimal vegetation. Success criteria will be based on the overall quality of the revegetation results compared to the recorded baseline vegetation data. Following completion of the revegetation, the surviving perennial plant species shall be evaluated annually by the consulting botanist for relative growth as determined by cover, diversity and density. Individual specimens or areas shall receive appropriate remedial attention as necessary. Remedial actions include removing invasive weed species or reseeding. The above procedure will be repeated annually for a total of five years or until success criteria achieved. Successful revegetation based on baseline data and DMR standards will be achieved when the reseeded areas have met the following in Table 3 five years after reclamation.

Table 3
Cove Borrow Pit
Recommended Revegetation Success Criteria

Mixed Desert Scrub	Baseline Mean	Standard Success Percentage	Success Criteria
Shrub Cover (%)	17	45%	8% cover of native perennials
Shrub Density (stems/100 m <sup>2</sup> )	25	45%	11 native perennials/100 sq. meters
Species Diversity (species/100 m <sup>2</sup> )	7 for all sample areas; 4 per 100 m <sup>2</sup>	40%	4 native perennials/100 sq. meters (higher criteria selected)

Source: Revegetation Plan – Jericho Systems Inc.; October 2019 (see Appendix 1)

### Revegetation Monitoring

The ongoing revegetation activities will be monitored throughout the life span of the mining operation and will be summarized annually as part of the overall monitoring plan and report. Data on plant species diversity, cover, density, survival and vigor will be collected on revegetated sites and compared qualitatively to undisturbed sites to evaluate success. The operator will seed with the seed mix listed in Table 2 which includes four perennial species.

The annual monitoring will include random transect sampling within the revegetation area. The number of transects and plots will vary in order to produce the 80% confidence level required under SMARA's Performance Standards for Revegetation. The following data will be collected within transects and plots:

- a. Survivorship: assessed by absolute counts
- b. Plant density
- c. Species richness
- d. Cover per specified area

All data will be recorded, and permanent photo documentation stations will also be established for representative transects in order to visually document annual vegetation changes and community development.

If at any time the revegetation efforts are found unsuccessful as compared to surrounding areas, the botanist will reevaluate the revegetation guidelines and recommend procedures to ensure successful plant propagation. Remedial activities may include but not limited to additional seeding, change of seed mix, removal of invasive non-native species, and additional protection from human and animal impacts as deemed necessary. Monitoring of the revegetation will continue for five years after cessation of mining or until the site is deemed successfully revegetated by the County. These results will be reported to the County of San Bernardino annually.

### 2.7 CLEANUP

At the completion of mining activities, all mining equipment will be removed from the project site. All debris will be removed and disposed at a permitted facility. All quarry fencing and gates will remain in place to prevent unauthorized access.

### 2.8 POST RECLAMATION AND FUTURE MINING

The reclaimed site will not preclude or necessitate any future mining activities with depth or surface modification. Upon completion of mining activities, the site will consist of a DPW material maintenance and storage yard (approx. 15.5 acres) and could be used for other uses at the discretion of the DPW. Approximately 18.7 acres will be reclaimed and revegetated as open space and the remaining 90.3 acres of mostly undisturbed lands will be open space.

### 2.9 SLOPE AND SLOPE TREATMENT

Stabilization of the mine slopes will be accomplished concurrent with final sloping of a completed slope and during the final excavations per area and phase and may include some backfilling of slopes if over-steepened. Slope stabilization will improve the aesthetics of the site; reduce slope erosion; eliminate slope sliding; and eliminate hazards such as un-safe drop-offs.

Final slopes will be reclaimed at 3H:1V so backfilling will be minimized. If some minor fill is required to create final 3H:1V slopes, the fill will be compacted by tracking the dozer over the

slope to achieve appropriate compaction consistent with the final end use of DWP material maintenance and storage yard. Overly compacted final-graded slopes and/or the pit floor may require being loosened by mechanical means to aid the reseeding effort.

Preserved topsoil (as described in Section 2.11 Soils) will be placed over this prepared compacted/loosened surface, with final treatment and subsequent revegetation to follow pursuant to Section 2.6 Revegetation. Revegetation activities will generally commence in late fall to correspond with the rainy season of the area.

### 2.10 PONDS, WASTES

No ponds are proposed, and chemicals are not used on-site; no processing occurs on-site. There will be no chemical waste or pollution from the mining operations.

### **2.11 SOILS**

Soils on site are solely comprised of Lucerne sandy loam. The Lucerne series consists of very deep, well drained soils that formed in alluvium from dominantly granitic sources. Lucerne soils are on alluvial fans, fan terraces and terraces and have slopes of 0 to 15 percent. All identified topsoil, or at minimum the top 6-12 inches of surface soils and material, will be graded into stockpiles to preserve as much of the organic material and seeds as practicable. Locations for temporary and more long-term surface material stockpiles are identified on Sheet 1 of the Mine Plan. Approximately 2 acres at 6-foot high, or approximately 23,716 cubic yards may be salvaged.

### 2.12 DRAINAGE AND EROSION CONTROLS

Post-reclamation drainage on-site will be contained by the resulting shallow basin. Only minor sheet flow may drain into the pit. No defined drainages will be interested by the project site. Refer to Section 1.5 for a description of drainage and erosion controls that will be maintained after termination of mining.

### 2.13 PUBLIC SAFETY

All equipment and debris will be removed from the site upon project completion. Public access to the site will be restricted by the site perimeter 4-strand wire fence and locked access gates during operations and until revegetation is deemed successful. Warning signs with contrasting background lettering will be installed every 250 feet along the approved surface mine boundary shall be installed and shall read "No Trespassing - Keep Out; Surface Mining Operation" or similar during mining. Signs will be approximately 1-foot high and 2 feet wide.

The reclaimed 3H:1V slopes will be of sufficient low gradient as not to cause a hazard to public safety if the public illegally trespasses onto the site.

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### 2.14 MONITORING AND MAINTENANCE

The County as lead agency to implement SMARA requires annual reporting of Mining and Reclamation activities. The reports are filed with the State Division of Mine Reclamation and the County. Revegetated areas will be monitored over a five-year period or until success criteria achieved following initial planting. Data on plant species diversity, cover, survival and vigor will be collected on revegetated sites and compared to baseline data from undisturbed sites to evaluate project success.

Monitoring and maintenance of reclamation is an ongoing responsibility of the applicant and if accepted, by the landowner (County of San Bernardino).

Ongoing operations and reclamation activities require monitoring and maintenance as applicable. The operator will provide onsite review of the following among others:

- a. Storm Water Pollution Prevention per the NPDES plan and SWPPP required by State and Federal rules. Erosion control will be reviewed and addressed within the SWPPP.
- b. Implementation and effectiveness of dust control measures;
- c. Maintenance and managing idling for trucking operations;
- d. Inspection of fencing and signs; and
- e. Test revegetation plots.

### 2.15 RECLAMATION ASSURANCE

The applicant shall post or cause to be posted reclamation assurance in an amount sufficient to pay for the cost of reclamation as outlined in Section 2. The reclamation assurance shall be reviewed by the Lead Agency annually as required by the SMARA. San Bernardino County is the lead agency for SMARA compliance and will review the Reclamation Assurance and inspect the mine site annually.

In addition to the monitoring through inspections and reporting, the operator is required to assure reclamation of the site in accordance to the approved Reclamation Plan in compliance with Section 2773.1 of SMARA. The operator shall continue to post reclamation assurance mechanisms in an amount sufficient to pay for the cost of reclamation as outlined in Section 2. The financial assurances must be approved by and payable to the County and the California Department of Conservation.

### 2.16 MONITORING AND MAINTENACE PER PRC SECTION 2770.1

Public Works will secure the site and establish best management practices to ensure that mining operations can easily resume when road maintenance activities are required. Prior to and during the pendency of the present IMP period, Public Works will continue operations at the site through the ongoing compliance with its land use entitlements, and all other state and federal regulations required to maintain current and future activities at the site. Public Works will secure the Site as follows:

- Maintaining appropriate berms, walls, and fences around the Site. Public Works will also repair any damaged berms, walls and/or fences within 48 hours of discovery.
- Inspecting quarry areas and removing any deleterious or hazardous materials in accordance with government requirements.
- Patrolling quarry areas on an ongoing basis, utilizing County personnel or outside security personnel, to discover any items that are inconsistent with the Site's IMP, Public Works protocol or applicable regulation.
- Reporting/recording any such items for prompt attention.

### Maintenance and Monitoring:

Public Works employees will continue to monitor all slopes and vegetation while the Site is idle. Public Works will also ensure that all erosion control measures outlined in the Site's Erosion Control Plan are maintained throughout the term of the IMP.

For the purposes of a borrow pit surface mining operation that is owned or operated by a lead agency solely for use by that lead agency, all the following shall apply:

- (a) (1) In addition to the requirements of Sections 2772 and 2773, the lead agency shall include in its reclamation plan maintenance measures that become effective when the borrow pit surface mining operation is idle. The maintenance measures shall maintain the site in compliance with this chapter while the borrow pit surface mining operation is idle.
  - (2) Notwithstanding paragraph (1), a lead agency may obtain an interim management plan pursuant to subdivision (h) of Section 2770.
  - (3) A lead agency that complies with this subdivision shall be exempt from the requirements of paragraph (6) of subdivision (h) of Section 2770.
- (b) Notwithstanding paragraph (2) of subdivision (h) of Section 2770, an interim management plan for a borrow pit surface mining operation may remain in effect until reclamation of the borrow pit surface mining operation is completed in accordance with the approved reclamation plan.
- (c) Notwithstanding subdivision (b) of Section 2774, a lead agency may conduct an inspection of a borrow pit surface mining operation once every two calendar years during a period when the borrow pit surface mining operation is idle.

### 3.0 GEOLOGY

The Cove Borrow Pit is located in the community of Lucerne Valley, approximately 10 miles southeast of the city of Apple Valley in the Mojave Desert. The Mojave Desert province is characterized by an interior region of isolated mountain ranges separated by expanses of desert plains. In general, the province has an interior enclosed drainage and many playas. Two important fault trends control topography in the Mojave province, one being a prominent northwest/southeast trend and the other a secondary east-west trend. The Study Area is generally underlain by recent age alluvium, lake, playa, and terrace deposits made up of weathered rock and sand; unconsolidated and semi-consolidated.

The Study Area, as is most of Southern California, is located in a seismically active area. According to the California Geologic Survey, Fault Activity Map, 2010, the nearest recently active faults include the Helendale Fault and North Frontal Fault. The Study Area is not located within a Geologic Hazard Overlays (SBCLUP, Lucerne Valley, FI01B). These and other faults are capable of generating significant seismic events (greater than 5.0 magnitude).

The project site does not fall within a Geological Hazard Zone, as identified on the San Bernardino County General Plan Map Atlas, overlay map, CHDHC, Lucerne Valley, FI01B. There are no geologic conditions that could adversely affect this project.

### 4.0 HYDROLOGY

### **Surface Hydrology**

The Project site is located within the upper Mojave watershed. The overall Mojave hydrologic basin, which has a surface area of approximately 4,500 square miles, is located entirely within the County of San Bernardino. The Mojave River, located approximately 15 miles southeast of the project site, is the nearest major watercourse. Most of the Mojave River is subterranean, however, flows breach the surface between the cities of Barstow and Victorville.

The southern portion of the Site is relatively flat, and the northern portion will include hillside mining. No drainages are intersected by the proposed excavation area however, as the mining will be conducted into the hillside, the control of drainage, erosion, and sedimentation of the mine site will primarily be conveyed into a storm water detention basin and with implementing BMPs as applicable.

### Groundwater

Groundwater is anticipated to flow northwest and west generally mimicking surface topography. According to State Water Board "Groundwater Ambient Assessment Program" (GAMA), groundwater is recorded at a depth greater than 350 feet below ground surface (bgs).

Water use on-site will be utilized to minimize dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 4,000 gallons of water a day (6 to 20 days a year) may be used for dust suppression activities. The 4,000-gallon water truck will fill at Mojave Water Agency designated hydrant. It is not anticipated that there will be any excess water from the wetting-down procedure; therefore, no recycling is required or planned. The County has a memorandum of understanding (MOU) with the Mojave Water Agency.

### REFERENCES

California Department of Conservation, Division of Mine Reclamation. *Surface Mining and Reclamation Act of 1975* (SMARA, Public Resources Code, Sections 2710-2796). May 2017.

California State Water Resources Control Board - GeoTracker website. <a href="https://geotracker.waterboards.ca.gov/">https://geotracker.waterboards.ca.gov/</a>

County of San Bernardino 2007 Development Code, amended September 23, 2016. Chapter 88.03 Surface Mining and Land Reclamation.

County of San Bernardino 2007 General Plan, amended April 24, 2014. http://www.sbcounty.gov/Uploads/lus/GeneralPlan/FINALGP.pdf.

Jericho Systems, Inc. Revegetation Plan. August 2019

S and S Seed Cost, January 2020

Jericho Systems, Inc, Biological Resources Assessment, September 2019

CRM Tech, Historical/Archaeological Resources Survey Report, September 2019

CRM Tech, Paleontological Resources Assessment Report, September 2019

The State Water Board GAMA Program;

https://www.waterboards.ca.gov/water\_issues/programs/gama/online\_tools.html

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### CROSS REFERENCE MATRIX

# Cove Borrow Pit Mine Reclamation Plan Surface Mining and Reclamation Act of 1975 (SMARA) & California Code of Regulations (CCR Title 14)

### Prepared by Lilburn Corporation - November 2020

Including reference to:

ARTICLE 1. GENERAL PROVISIONS. SECTION 2710 et seq.

ARTICLE 2. DEFINITIONS. SECTION 2725 et seq.

ARTICLE 3. DISTRICT COMMITTEES. SECTION 2740 - 2741

ARTICLE 4. STATE POLICY FOR THE RECLAMATION OF MINED LANDS. SECTION 2755 et seq.

ARTICLE 5. RECLAMATION PLANS AND THE CONDUCT OF SURFACE MINING OPERATIONS.

SECTION 2770 et seq., as amended

CCR TITLE 14 (REGISTER 85, No. 18-5-4-83)

CHAPTER 8. MINING AND GEOLOGY

SUBCHAPTER 1. STATE MINING AND GEOLOGY BOARD

ARTICLE 1. SURFACE MINING AND RECLAMATION PRACTIVE. SECTION 3500 et seq.

ARTICLE 9. RECLAMATION STANDARDS. SECTION 3700 et seq.

SMARA/CCR SECTION	DESCRIPTION	N/A	PAGE(S)	SECTION(S)
	MINING OPERATIO	NS AN	D CLOSURE	
SMARA 2770.5	100-year flood, Caltrans contact	X		
SMARA 2772 (c) (1)	Name and Address of operator/agent.		1	1.0
SMARA 2772 (c) (2)	Quantity & type of minerals to be mined.		1, 5	1.0, 1.1
SMARA 2772 (c) (3)	Initiation and termination date.		5	1.1
SMARA 2772 (c) (4)	Maximum anticipated depth of mining.		5, 11	1.1, 2.1
SMARA 2772 (c) (5)	Description, including map with boundaries, topographic details, geology, streams, roads, utilities.		1 – 10 Sheets 1 & 2	1.0 - 1.6
SMARA 2772 (c) (6)	Mining plan and time		1- 8, 14-15	1.0, 1.1, 2.5
SMARA 2772 (c) (7)	Proposed subsequent use.		21	2.8
SMARA 2772 (c) (8)	Description of reclamation measures adequate for proposed end use.		14-21	2.5 - 2.7

SMARA/CCR SECTION	DESCRIPTION	N/A	PAGE(S)	SECTION(S)
	MINING OPERATIO	NS A	ND CLOSURE	
SMARA 2772 (c) (8) (a)	Description of containment control and mine waste disposal.		8	1.2
SMARA 2772 (c) (8) (b)	Rehabilitation of stream banks/beds to minimize erosion	X		
SMARA 2772 (c) (9)	Impact of reclamation on future mining.		21	2.8
SMARA 2772 (c) (10)	Applicant statement accepting responsibility for reclamation per the reclamation plan.		Attached to application	
SMARA 2773 (a)	Water quality monitoring plan specific to property.		9, 22 SWPPP to be prepared upon approval	1.5, 2.12
SMARA 2773 (a)	Sediment and erosion control monitoring plan specific to property.		9, 22 SWPPP to be prepared upon approval	1.5, 2.12
SMARA 2773 (a)	Revegetation plan specific to property. Monitoring Plan.		15-21	2.6
SMARA 2773.1	Performance (financial) assurances.		Draft attached to application	
SMARA 2777	Amended reclamation plans required prior to substantial deviations to approved plans.	X	INFORMATIONAL	
CCR 3502 (b) (1)	Environmental setting and impact of reclamation on surrounding land uses.		11-15	2.1 – 2.5
CCR 3502 (b) (2)	Public health and safety (exposure).		22	2.13
CCR 3502 (b) (3)	Slopes: critical gradient, consider physical properties and landscaping.		5, 21-22	1.1, 2.9

SMARA/CCR SECTION	DESCRIPTION	N/A	PAGE(S)	SECTION(S)
	MINING OPERATIO	NS AN	D CLOSURE	
CCR 3502 (b) (4)	Fill materials in conformance with current engineering practice.	X		
CCR 3502 (b) (5)	Disposition of old equipment		21	2.7
CCR 3502 (b) (6)	Temporary stream and water diversions shown.	X		
CCR 3503 (a) (1)	Removal of vegetation and overburden preceding mining kept to a minimum.		14-21	2.5, 2.6
CCR 3503 (a) (2)	Overburden stockpiles managed to minimize water and wind erosion.	X		
CCR 3503 (a) (3)	Erosion control facilities (dikes, ditches, etc.) as necessary.		9, 22	1.5, 2.12
CCR 3503 (b) (1)	Settling ponds (sedimentation and water quality).	X		
CCR 3503 (b) (2)	Prevent siltation of groundwater recharge areas.	X		
CCR 3503 (c)	Protection of fish and wildlife habitat (all reasonable measures).		11-14	2.3, 2.4
CCR 3503 (d)	Disposal of mine waste and overburden (stable-no natural drainage restrictions without suitable provisions for diversion).	X		
CCR 3503 (e)	Erosion and drainage (grading to drain to natural courses or interior basins).		9, 22	1.5, 2.12
CCR 3503 (f)	Resoiling (fine material on top plus mulches).		15-22	2.6, 2.11
CCR 3503 (g)	Revegetation and plant survival (use available research).		15-21	2.6
CCR 3703 (a)	Sensitive species conserved or mitigated		11-12	2.3
CCR 3703 (b)	Wildlife habitat at least as good as pre-project, if approved end use is habitat.		15-21	2.6

SMARA/CCR SECTION	DESCRIPTION	N/A	PAGE(S)	SECTION(S)
	MINING OPERATIO	NS AN	ID CLOSURE	
CCR 3703 (c)	Wetlands avoided or mitigated at 1:1 minimum	X		
CCR 3704 (a)	For urban use, fill compacted in accordance with UBC or local grading ordinance.	X		
CCR 3704 (b)	For resource conservation, compare to standard for that end use	X		
CCR 3704 (c)	Mine waste stockpiled to facilitate phased reclamation and separate from growth media.	X		
CCR 3704 (d)	Final reclamation fill slopes not exceed 2:1, except when engineering and revegetation analysis allow.	X		
CCR 3704 (e)	Final landforms or fills conform with surrounding topography or end use.		14-15, 21-22	2.5, 2.9
CCR 3704 (f)	Cut slopes have minimum factor of safety for end use and conform with surrounding topography.		14-15, 21-22	2.5, 2.9
CCR 3704 (g)	Piles or dumps not placed in wetlands without mitigation.	X		
Vegetative cover, suitable to end use, self-sustaining.  CCR 3705 (a)  Baseline studies documenting cover, density and species richness.			15-21; Table 3	2.6; Appendix 1
CCR 3705 (b)	Test plots if success has not been proven previously		15-21	2.6
CCR 3705 (c)	Decompaction of site.		14-21	2.5, 2.6
CCR 3705 (d)	Roads stripped of road base materials, resoiled and revegetated, unless exempted.		14-21	2.5, 2.6
CCR 3705 (e)	Soil altered or other than native topsoil, required soil analysis. Amend if necessary.	X		

SMARA/CCR SECTION	DESCRIPTION	N/A	PAGE(S)	SECTION(S)
	MINING OPERATIO	NS AN	ND CLOSURE	
CCR 3705 (f)	Temporary access not bladed. Barriers installed.	X		
CCR 3705 (g)	Use native plant species, unless exotic species meet end use.		15-21	2.6
CCR 3705 (h)	Plant during correct season.		14-21	2.5, 2.6
CCR 3705 (i)	Erosion control and irrigation, when necessary.		9, 22	1.5, 2.12
CCR 3705 (j)	If irrigated, demonstrate self- sustaining without for two- year minimum.	X		
CCR 3705 (k)	Weeds managed.		19	2.6
CCR 3705 (l)	Plant protection measures, fencing, caging.	X		
CCR 3705 (m)	Success quantified by cover, density and species-richness. Standards proposed in plan. Sample method set forth in plan and sample size provides 80 percent confidence level, as minimum.		15-21; Table 3	2.6
CCR 3706 (a)	Mining and reclamation to protect downstream beneficial uses.	X		
CCR 3706 (b)  Water quality, recharge groundwater storage shot be diminished, exceed allowed by plan.		X		
CCR 3706 (c)	Erosion and sedimentation controlled during all phases as per RWQCB/SWRCB.		9, 22	1.5, 2.12
CCR 3706 (d)  Surface runoff and drainage controlled and methods designed for not less than 20 year/1 hour intensity storm event.			9, 22	1.5, 2.12
CCR 3706 (e)	Altered drainages shall not cause increased erosion or sedimentation.	X		

SMARA/CCR SECTION DESCRIPTION			PAGE(S)	SECTION(S)
	MINING OPERATIO	NS AN	ND CLOSURE	
CCR 3706 (f)	Stream diversions constructed in accordance with DFG 1603, EPA 404, Sec. 10 Rivers and Harbors.	X		
CCR 3706 (g)	All temporary diversions eventually removed.	X		
CCR 3707 (a)	Return prime ag to prime ag, unless exempted.	X		
CCR 3707 (b)	Segregate and replace topsoil by horizon.	X		
CCR 3707 (c) Productivity rates equal preproject or similar site for two consecutive years. Rates set forth in plan.				
CCR 3707 (d)	Fertilizers and amendments not contaminate water.	X		
CCR 3708	Other ag capable of sustaining crops of area.	X		
CCR 3709 (a)	Equipment stored in designated area and waste disposed of according to ordinance.		8	1.2
CCR 3709 (b)	Structures and equipment dismantled and removed.		21	2.7
CCR 3710 (a)	Surface and groundwater protected.		9, 22	1.5, 2.12
Surface and groundwater projected in accordance with Porter Cologne and Clean Water Acts (RWQCB/SWRCB).			9, 22	1.5, 2.12
CCR 3710 (b)	In-stream in accordance with CFG 1600, EPA 404, and Sec. 10 Rivers and Harbors.	X		
CCR 3710 (c)	In-stream channel elevations and bank erosion evaluated annually using extraction quantities, cross-sections, and aerial photos.	X		

SMARA/CCR SECTION DESCRIPTION			PAGE(S)	SECTION(S)
	MINING OPERATIO	NS AN	ND CLOSURE	I
CCR 3710 (d)	In-stream mining activities shall not cause fish to become entrapped in pools or in off-channel pits. California Fish and Game Code section 1600.	X		
CCR 3711(a)	All salvageable topsoil removed. Topsoil and vegetation removal not proceed mining by more than one year.		22	2.11
CCR 3711 (b)	Topsoil resources mapped prior to stripping, location of stockpiles on map. Topsoil and growth media in separate stockpiles.		22	2.11
CCR 3711 (c)	Soil salvage and phases set forth in plan, minimize disturbance, designed to achieve revegetation success.		22	2.11
CCR 3711 (d)	Topsoiling phased ASAP. Stockpiles not to be		22	2.11
CCR 3711 (e)	Topsoil redistributed in stable site and consistent thickness.		15-22	2.6, 2.11
CCR 3712	Waste and tailings, and		8	1.2
CCR 3713 (a)	Drill holes, water wells, monitoring wells abandoned in accordance with laws.	X		
CCR 3713 (b)	All portals, shafts, tunnels, or openings, gated or protected from public entry, but preserve access for wildlife.	X		

# APPENDIX 1 BIOLOGY STUDY/ REVEGETATION PLAN; JERICHO SYSTEMS JULY 2019

# Biological Resources Assessment 124.5-Acre Cove Borrow Pit Project

Community of Lucerne San Bernardino County, California Lucerne Valley USGS – 7.5 Minute Quadrangle South 1/2 of Section 33, Township 5 North, Range 1 West

Prepared for:

### **Lilburn Corporation**

Attn: Frank Amendola 1905 Business Center Drive San Bernardino, CA 92408

Prepared July 2019

Prepared by:



Jericho Systems, Inc. 47 1<sup>st</sup> Street, Suite 1 Redlands, CA 92373-4601

## Certification

Jericho Systems, Inc. 47 1<sup>st</sup> Street, Suite 1 Redlands, CA 92373-4601 (909) 915-5900



Contact: Shay Lawrey, President and Ecologist/Regulatory Specialist

Certification: I hereby certify that the statements furnished herein, and in the attached exhibits present data and information required for this Biological Resources Repot to the best of my ability, and the facts, statements, and information presented are true and correct to the best of my knowledge and belief. This report was prepared in accordance with professional requirements and standards. Fieldwork conducted for this assessment was performed by me and/or under my direct supervision.

Shay Lawrey, Ecologist/Regulatory Specialist

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### ITEMS LOCATED AT THE END OF THE DOCUMENT

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- 2 Table 1. Database Queries (CNDDB, IPAC, CNPSEI) Results
- 3 Figure 1-6
- 4 Site Photos
- 5 Regulatory framework

### 1 Introduction

On behalf of Lilburn Corporation, Jericho Systems, Inc. (Jericho) conducted a general biological resources assessment (BRA) habitat suitability assessments, and Jurisdictional Delineation (JD) of the existing conditions at property owned by the County of San Bernardino Department of Public Works (DPW) and referred to the Cove Burrow Pit (Project). The DPW is the lead agency overseeing the mine permitting. The Project consists of permitted mining use over the next 50 years. The Project plans hillside mining from existing grade to property line setback 50ft, slope 3:1.

The property surveyed (which included the Project area) is approximately 124.5 acres in size and is located near the intersection of Cove Road with Exeter Street/Banta Road, northwest of the community of Lucerne and can be found on the *Lucerne Valley* U.S. Geological Survey (USGS) 7.5-minute series quadrangle within the South 1/2 of Section 33, Township 5 North, Range 1 West (Figures 1-2).

This report is designed to address potential effects of the proposed Project to designated Critical Habitats and/or any species currently listed or formally proposed for listing as endangered or threatened under the federal Endangered Species Act (ESA) and the California Endangered Species Act (CESA), or species designated as sensitive by the California Department of Fish and Wildlife (CDFW), or the California Native Plant Society (CNPS).

Attention was focused on sensitive species known to occur locally including the State- and federally-listed as threatened desert tortoise (*Gopherus agassizii*) [DT] and the State-listed as threatened Mohave ground squirrel (*Xerospermophilus mohavensis*) [MGS] as well as burrowing owl (*Athene cunicularia*) [BUOW], which is a State and federal Species of Special Concern (SSC). This report also addresses resources protected under the Migratory Bird Treaty Act, federal Clean Water Act (CWA) regulated by the U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) respectively; and Section 1602 of the California Fish and Game Code (FCG) administered by the CDFW.

In addition to the BRA and habitat assessments, Jericho biologists Shay Lawrey, CJ Fotheringham, Christian Nordal and Todd White conducted a JD of the project site. The purpose of the JD is to determine the extent of State and federal jurisdictional waters within the project area potentially subject to regulation by the USACE under Section 404 of the CWA, RWQCB under Section 401 of the CWA and Porter Cologne Water Quality Control Act, and CDFW under Section 1602 of the FGC, respectively...

### 1.1 Environmental Setting

The Project site is located in the Lucerne Valley, at the western edge of the Mojave Desert. Because this area is in proximity to montane, foothill, and desert habitats, the Project region contains plants, plant communities, and animals adapted to each of these general habitat classes. The Lucerne Valle is bounded by the Granite, Ord, and Rodman Mountains to the north and the San Bernardino Mountains to the south. The San Bernardino Mountains are the larger of these two ranges, reaching elevations in excess of 11,000 feet at the top of Mt. San Gorgonio, and receive considerable winter snowfall.

The local climate is characterized by cool winter temperatures, warm summer temperatures that are moderated somewhat by the marine influence, with its rainfall occurring almost entirely in the winter and due to this climate several unique desert plant community occur. Juniper and pinyon pines are found at higher elevations, while creosote bush scrub, yuccas, Joshua trees, grasslands, and cholla are found at lower elevations. In addition, some of the larger washes within the desert support desert riparian woodlands. However, the Joshua tree (*Yucca brevifolia*) is the signature plant of the Mojave Desert and

often defines its boundaries. In the Lucerne Valley, vegetation is mainly comprised of creosote bush scrub.

Much of the Project site is relatively undisturbed, comprised of native shrubs with a low-lying understory of native and nonnative herbaceous species. Vegetation on site is characterized by the presence of two distinct plant communities. The Project site vegetation is dominated by shrubs and herbaceous understory closely corresponding with Sawyer et al.'s (2009) creosote bush-white burr sage scrub (*Larrea tridentata-Ambrosia dumosa* shrubland alliance).

Hydrologically, the Project site is within the Lucerne Lake hydrologic unit of the Colorado River hydrologic region. This watershed is not tributary to the ocean or any other water body; rather, all water either infiltrates into the groundwater basin, evaporates, or flows toward the dry lakebed of Lucerne Lake located to the northwest of the Project site. All flow channels on-site are intermittent or ephemeral and likely only receive stream flow during and following significant rain events. Typical of arid regions, the area experiences short-duration, high-intensity rainfall storm events producing potentially high rates of runoff when the initial infiltration rates are exceeded. During these periods the small, incised washes become conduits for water flow. The soil in the watershed is predominantly Soil Group D which is characterized as having high runoff potential due to very slow infiltration rates when thoroughly wetted.

Elevations on-site range from 3,352 to 2,860 feet above mean sea level. The Project site is surrounded by vacant land and low density rural residential to the west and northwest.

### 2 Methods

As stated above, the objective of this document is to determine whether the Project site supports special status or otherwise sensitive species and/or their habitats, and to address the potential effects associated with the Proposed project on those resources. The species and habitats addressed in this document are based on database information and field investigation.

Prior to conducting the field study, species and habitat information was gathered from the reports related to the specific project and relevant databases for the *White Horse Mountain, Fairview Valley, Fifteenmile Valley, and Lucerne Valley* USGS quadrangles to determine which species and/or habitats would be expected to occur on site. The Project site is situated in the northwestern portion of the *Lucerne Valley* quad. The site's similar elevation ecology and proximity to the *Fifteenmile Valley and Lucerne Valley* to the site lead to their inclusion in the review. These databases contain records of reported occurrences of State- and federally listed species or otherwise sensitive species and habitats that may occur within the vicinity of the project site. These sources include:

- U.S. Fish and Wildlife (USFWS) threatened and endangered species occurrence GIS overlay;
- USFWS Information for Planning and Consultation System (IPaC);
- California Natural Diversity Database (CNDDB) Rarefind 5);
- CNDDB Biogeographic Information and Observation System (BIOS);
- California Native Plant Society Electronic Inventory (CNPSEI) database;
- Calflora Database:
- USDA Natural Resources Conservation Service (NRCS) Web Soil Survey;
- USFWS National Wetland Inventory;
- Environmental Protection Agency (EPA) Water Program "My Waters" data layers
- USFWS Designated Critical Habitat Maps
- Mohave Ground squirrel Range maps

Other available technical information on the biological resources of the area was also reviewed including previous surveys and recent findings.

Jericho biologists Shay Lawrey, CJ Fotheringham, Christian Nordal, and Todd White conducted a biological resources assessment of the Project site on March 30, April 1, 2 and 15, 2019. Each biologist has advanced degrees in biology and several years of survey experience throughout San Bernardino County and southern California

The surveyors conducted the systematic and comprehensive surveys during calm weather, between the hours of 7 a.m. and 4 p.m. Weather conditions during the surveys consisted of clear skies to overcast with temperatures ranging from 58 degrees Fahrenheit (° F) to 74° F and light wind <5 mph. The survey area encompassed the entire project site and included 100 percent coverage of the site with plots spaced  $\geq$  10 meters apart. A surrounding 500-foot buffer area surrounding the site was also surveyed for species diversity and discovery of rare species.

Desert tortoise surveys were conducted in accordance with the protocols described in the USFWS's 2009 "Desert Tortoise (Mojave Population) Field Manual: (Gopherus agassizii)," the 2010 "Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats," and the August 31, 2017 survey protocol update, "Preparing for Any Action That May Occur Within the Range of The Mojave Desert Tortoise (Gopherus agassizii)". Per the USFWS survey protocol, 100 percent visual coverage of the survey area was achieved by walking 10-meter (30-foot) wide belt transects over the entire Project site wherever there was potentially suitable desert tortoise habitat present (i.e. creosote bush scrub and/or allscale scrub habitats), to provide sufficient coverage to find signs of desert tortoise use (e.g., scat, burrows, carcasses, courtship rings, drinking depressions, etc. in addition to live tortoises).

Areas within the Project site that were not surveyed to protocol-level coverage consisted entirely of steep rugged hillside terrain, which would not be considered suitable for desert tortoise. In addition to the 100 percent coverage of any potentially suitable habitat within the Project site, Jericho biologists walked 200-, 400- and 600-meter transects around the perimeter of the Project site, in accordance with the USFWS 2010 *Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats*. It should be noted that these "zone of influence" transects are no longer required as of the 2017 updated protocol. However, to provide additional sampling of the areas adjacent the Project site, the 200-, 400- and 600-meter transects around the perimeter of the Project site were included in the survey. The transect routes were calculated and downloaded to handheld global positioning system (GPS) units that were used to accurately navigate the transects.

Wildlife species were detected during field surveys by sight, calls, tracks, scat, or other sign. In addition to species observed, expected wildlife usage of the site was determined per known habitat preferences of regional wildlife species and knowledge of their relative distributions in the area. The focus of the faunal species surveys was to identify potential habitat for special status wildlife within the project area. Disturbance characteristics and all animal sign encountered on the site are recorded in the results section of this report.

The site was also evaluated for the presence of jurisdictional waters, i.e. waters of the U.S. as regulated by the USACE and RWQCB, and/or streambed and associated riparian habitat as regulated by the CDFW. Evaluation of potential federal jurisdiction followed the regulations set forth in 33CFR part 328 and the USACE guidance documents and evaluation of potential State jurisdiction followed guidance in the Fish and Game Code and A Review of Stream Processes and Forms in Dryland Watersheds (CDFW, 2010).

### 3 Results

### 3.1 Existing Biological and Physical Conditions

### **Habitat**

The Project site vegetation is dominated by shrubs and herbaceous understory closely corresponding with Sawyer et al.'s (2009) white burr sage scrub (*Ambrosia dumosa* shrubland alliance). Other native species that are conspicuous in the shrub layer within the survey area include iodine bush (*Allenrolfea occidentalis*), burrobrush (*Ambrosia salsola*), Mormon tea (*Ephedra nevedensis*) and California goldenbush (*Ericameria lindleyi.*). The plant community is extremely diverse with a total of 70 species observed, 18 (26%) of which were shrub species and only six (9%) nonnative species. All plant species identified during survey are included in Appendix A.

### Wildlife

No amphibian species were observed or otherwise detected within the Project area and none are expected to occur. Reptile species observed within the Project area include desert spiny lizard (*Sceloporus magister*), and western side-blotched lizard (*Uta stansburiana elegans*). Other common reptile species expected to occur within the Project area include desert glossy snake (*Arizona elegans eburnata*), Mohave shovel-nosed snake (*Chionactis occipitalis*), desert banded gecko (*Coleonyx variegatus variegatus*), and northern Mohave rattlesnake (*C. scutulatus scutulatus*).

Avian species observed in the Project area include verdin, greater roadrunner, red-tailed hawk, American kestrel, prarie falcon, turkey vulture, common raven, rock wren, lesser nighthawk, loggerhead shrike, black-tailed gnatcatcher and LeConte's thrasher.

Identification of mammals within the Project area was generally determined by physical evidence rather than direct visual identification. This is because: 1) many of the mammal species that potentially occur onsite are nocturnal and would not have been active during the survey; and, 2) no mammal trapping was performed. Mammal species observed or otherwise detected on site included white-tailed antelope ground squirrel (*Ammospermophilus leucurus*), black-tailed jackrabbit (*Lepus californicus*), desert cottontail (*Sylvilagus audubonii*) and Merriams' kangaroo rat (*Dipodomys merriami*). Mammal sign consisted primarily of scat and fossorial mammal burrows or dens. Numerous small mammal burrows were observed on site and two kit fox dens were observed.

### 3.2 Special Status Species and Habitats

According to the database queries, 32 sensitive species (20 plants and 12 animals) have been documented in the *Lucerne Valley, Fifteenmile Valley, Apple Valley S Valley*, and *White Horse Mountain* USGS 7.5-minute series quadrangles. This list of sensitive species includes any State- and/or federally listed threatened or endangered species, CDFW designated Species of Special Concern (SSC), and otherwise Special Animals. "Special Animals" is a general term that refers to all the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species." The CDFW considers the taxa on this list to be those of greatest conservation need.

Table 1, located at the end of this document, represents a compiled list of results from the IPaC, CNDDB and CNPSEI databases of species which have been documented within three miles of the Project site and/or have the potential to occur based on potentially suitable habitat adjacent to, or within, the Project

site (Figure 7 and Attachment 4). Table 1 also provides a potential to occur assessment based on the field investigation and surveyor's knowledge of the species and local ecology and considers the habitat requirements for each species and the potential for their occurrence on the site, based on required habitat elements relative to the current site conditions and species' range.

No State- and/or federally listed threatened or endangered species, or other sensitive species were observed on the Project site during the field surveys. However, there is some potentially suitable habitat in the undisturbed areas of the Project site and adjacent to it for sensitive species identified in the literature review (Table 1). Therefore, habitat suitability assessments were conducted within the Project area for golden eagle (*Aquila chrysaetos*) [GOEA], DT, BUOW, and MGS.

### Desert Tortoise

The desert tortoise is a State- and federally listed threatened species. Throughout its range, it is threatened by habitat loss, domestic grazing, predation, collections, and increased mortality rates. The desert tortoise is typically found in creosote bush scrub. They are most often found on level or sloped ground where the substrate is firm but not too rocky. Tortoise burrows are typically found at the base of shrubs, in the sides of washes and in hillsides. Because a single tortoise may have many burrows distributed throughout its home range, it is not possible to predict exact numbers of individuals on a site based upon burrow numbers.

In 1992 the BLM issued the *California Statewide Desert Tortoise Management Policy* which included categorizing habitat into three levels of classification. The management goal for Category I areas is to maintain stable, viable populations and to increase the population where possible. The management goal for Category II areas is to maintain stable, viable populations. The management goal for Category III areas is to limit population declines to the extent feasible. In April 1993, the BLM amended the CDCA plan to delineate these three categories of desert tortoise habitat on public lands. With the adoption of the West Mojave Plan (BLM 2005), all lands that are outside Desert Wildlife Management Areas are characterized as Category 3 Habitat, which is the lowest priority management area for viable populations of the desert tortoise.

<u>Findings</u>: Desert tortoise are documented to occur approximately 1.75 miles north of the Project site. There are no desert tortoise occurrences documented on site or directly adjacent to it. Excluding the rocky outcrop/rugged hills on the south half of the Project site, suitable habitat for desert tortoise is present.

Per the USFWS desert tortoise Critical Habitat overlay, the project site is not within any USFWS designated desert tortoise Critical Habitat. Furthermore, the project site is not within a BLM designated Desert Wildlife Management Area (USFWS 2011). Therefore, the habitat surrounding the site would be characterized as Category 3 Habitat, per the BLM categorization of desert tortoise habitat on public lands.

The site surveys were structured, in part, to detect desert tortoise. The survey consisted of walking transects spaced approximately 10 meters apart to provide 100% visual coverage of the project site, as well as 200-, 400- and 600-meter transects when and where possible surrounding the east, north and west of the Project site. The result of the survey was that no evidence of desert tortoise was found in the survey area. No desert tortoise individuals or sign including burrows or scat were observed. Therefore, desert tortoise are currently considered absent from the Project site and adjacent areas surveyed.

### Mohave Ground Squirrel

The MGS is a State-listed threatened species. This small, grayish, diurnal ground squirrel is endemic to two million hectares in the western Mojave Desert. It typically inhabits sandy soils of alkali sink and creosote bush scrub habitat. The Mohave ground squirrel forages on leaves and seeds and aestivate/hibernate for long periods of the year. Plants documented as forage for this species include: fiddleneck (*Amsinckia tessellata*), allscale (*Atriplex canescens* and *A. polycarpa*), desert holly (*A. hymenelytra*), coreopsis (*Coreopsis* sp.), spiny hopsage (*Grayia spinosa*), winterfat (*Krascheninnikovia lanata*), wolfberry (*Lycium andersonii*), Joshua tree (*Yucca brevifolia*) and the seeds of Joshua tree. It is suspected that Mohave ground squirrel forage on the plant species with the highest water content available at the time.

They emerge from hibernation in February and begin pair bonding and mating during March. If rainfall is adequate, MGS will reproduce. If rainfall levels do not provide sufficient rainfall to support significant annual plant growth, then MGS will merely forage on herbaceous perennials and shrubs in order to gain enough body mass to survive another prolonged period of dormancy and will not reproduce in that year. The adult males can enter dormancy as early as late May. Juveniles will remain above-ground until August in order to gain sufficient fat reserves prior to entering dormancy.

MGS occur in the western half of the Mojave Desert. Its historical range encompasses an area between Antelope Valley and Lucerne Valley, in the south. However, MGS occurrences in the southern portion of its range are very rare. The northern limits of the range are near Owens Dry Lakebed, in the north, and through China Lake Naval Weapons Station and Fort Irwin Military Base, in the east. The eastern limits extend to Barstow and south along the Mojave River. The western limits loosely follow Highway 14 and the foothills of the southern Sierra Nevada escarpment. MGS are dormant in the fall and winter months.

<u>Findings</u>: Although a focused MGS trapping survey was not performed, Jericho conducted a Mohave ground squirrel habitat suitability assessment of the Project site and adjacent habitat. The habitat assessment included a pedestrian field assessment, review of reported occurrences of the MGS in the region (CNDDB 2019), and adherence to CDFW's criteria for assessing potential impacts to the Mohave ground squirrel. The criteria questions are as follows:

- 1. Is the site within the range of the Mohave ground squirrel?;
- 2. Is there native habitat with a relatively diverse shrub component?; and
- 3. *Is the site surrounded by development and therefore isolated from potentially occupied habitat?*

An occurrence of Mohave ground squirrel is documented southeast of the Project site. This occurrence is from the 1920's. Mohave ground squirrel are thought to be extirpated east of the Interstate 15, south of Barstow and west of Highway 247. The Project site occurs outside the established current range for this species and no further discussion or investigation is warranted.

### Golden Eagle

The GOEA is a CDFW Fully Protected species. GOEA are found throughout North America but are more common in western North America (CDFW 2017). Habitat typically consists of rolling foothills and mountain terrain, wide arid plateaus deeply cut by streams and canyons, open mountain slopes, and cliffs and rock outcrops (Polite and Pratt 1990). GOEA build large platform nests, typically on cliffs and in large trees in open areas of rugged, open habitats with canyons and escarpments (Polite and Pratt 1990). Threats include loss of foraging areas, loss of nesting habitat, pesticide poisoning, lead poisoning

and collision with man-made structures such as wind turbines (CDFW 2019).

Raptors and all migratory bird species, whether listed or not, receive protection under the Migratory Bird Treaty Act (MBTA) of 1918. The MBTA prohibits individuals to kill, take, possess or sell any migratory bird, or bird parts (including nests and eggs) except in accordance with regulations prescribed by the Secretary of the Interior Department (16 U. S. Code 7035). Additional protection is provided to all bald and golden eagles under the Bald and Golden Eagle Protection Act of 1940, as amended. State protection is extended to all birds of prey by the California FGC, Section 2503.57. No take is allowed under these provisions except through the approval of the agencies or their designated representatives.

<u>Findings</u>: There are three GOEA nest site locations documented near the Project site, two within a mile to southwest and one within 2.5 miles to the northwest. These locations occur in the hillside terrain similar to what is found on the south boundary of the Project site. No GOEA were observed within the Project site boundaries during surveys.

### Burrowing Owl

The BUOW is a ground dwelling owl typically found in arid prairies, fields, and open areas where vegetation is sparse and low to the ground. The BUOW is heavily dependent upon the presence of mammal burrows, with ground squirrel burrows being a common choice, in its habitat to provide shelter from predators, inclement weather and to provide a nesting place (Coulombe 1971). They are also known to make use of human-created structures, such as cement culverts and pipes, for burrows. BUOW spend a great deal of time standing on dirt mounds at the entrance to a burrow or perched on a fence post or other low to the ground perch from which they hunt for prey. They feed primarily on insects such as grasshoppers, June beetles and moths, but will also take small rodents, birds, and reptiles. They are active during the day and night but are considered a crepuscular owl; generally observed in the early morning hours or at twilight. The breeding season for BUOW is February 1 through August 31.

The BUOW is not listed under the State or federal ESA but is considered both a State and federal SSC. The BUOW is a migratory bird protected by the international treaty under the Migratory Bird Treaty Act of 1918 and by State law under the California FGC (FGC #3513 & #3503.5).

<u>Findings</u>: BUOW are documented approximately 3 miles southeast of the Project site. There are no BUOW occurrences documented on site. The assessment survey was structured to detect BUOW. The survey consisted of walking transects spaced to provide 100% visual coverage of the project site, including an approximately 500-foot buffer area around the Project site. The result of the survey was that no evidence of BUOW was found in the survey area. No BUOW individuals or sign including pellets, feathers or whitewash were observed.

Per the definition provided in the 2012 CDFG Staff Report on Burrowing Owl Mitigation, "Burrowing owl habitat generally includes, but is not limited to, short or sparse vegetation (at least at some time of year), presence of burrows, burrow surrogates or presence of fossorial mammal dens, well-drained soils, and abundant and available prey." With the exception of the rocky hills to the south, the site provides suitable habitat for this species.

No sensitive plants were observed during survey and are addressed in the Plant Species Observed list located at the end of the document.

### 3.3 Jurisdictional Delineation

According to the USGS National Hydrography Dataset (NHD) waterbody identified as dry lakebed occurs on the NE quarter of the NE parcel outside of the Project area as shown on Figure 5.

### Waters of the U.S.

The USACE has authority to permit the discharge of dredged or fill material in waters of the U.S. under Section 404 CWA. WoUS are defined as: "All waters used in interstate or foreign commerce; all interstate waters including interstate wetlands; all other waters such as intrastate lakes, rivers, streams (including intermittent and ephemeral streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes or natural ponds, where the use, degradation, or destruction of which could affect interstate commerce; impoundments of these waters; tributaries of these waters; or wetlands adjacent to these waters" (Section 404 of the CWA; 33 CFR 328.3 (a). CWA jurisdiction exists over the following:

- 1. all traditional navigable waters (TNWs);
- 2. all wetlands adjacent to TNWs;
- 3. non-navigable tributaries of TNWs that are relatively permanent waters (RPWs) i.e., tributaries that typically flow year-round or have continuous flow at least seasonally; and
- 4. every water body determined to have a significant nexus with TNWs.

The dry lakebed does not meet the definition of WoUS due to the isolated nature of Lucerne Valley and is not subject to the CWA.

### Wetlands

No hydrophitic vegetation, hydric soils and/or wetland hydrology, are present within the Project site. Therefore, no wetlands were identified during the survey.

### State Lake/Streambed

The dry lakebed is would be subject to the California FGC Section 1600 regulations that fall under the jurisdiction of the CDFW, but the project will not encroach into the limits of this waterbody that would require a Lake or Streambed Alteration Agreement..

### 4 Conclusions and Recommendations

### 4.1 Sensitive Biological Resources

No State- and/or federally listed threatened or endangered species or otherwise sensitive species were observed on site during the field surveys. Habitat on site is potentially suitably to support desert tortoise, burrowing owl and golden eagle and nesting birds in general.

### Desert Tortoise

The result of the protocol desert tortoise survey was that no desert tortoise individuals or sign including desert tortoise burrows, carcasses, scat, courtship rings or drinking depressions were detected within the survey area. Therefore, desert tortoise are currently considered absent from the Project site. However,

because there is suitable creosote bush scrub and allscale scrub habitat on site and there are documented desert tortoise populations to the north, east and southwest of the Project area, desert tortoise movement or occupation could potentially occur in the future.

Therefore, the following precautionary measures are recommended to avoid potentially injuring or killing any desert tortoise that may wander on site during operations of the burrow pit within suitable desert tortoise habitat:

- 1. A qualified biologist shall provide an Environmental Awareness Presentation to workers on an as needed basis.
- 2. A qualified biologist shall conduct a pre-sweep survey of any areas slated for new land disturbance
- 3. A biological monitor shall be present during initial land disturbing activities.

According to protocol and standard practices, the results of the focused desert tortoise surveys will remain valid for the period of one year, or until April 2020, after which time, if the site has not been disturbed in the interim, another survey may be required to determine the persisting absence of desert tortoise on-site. Regardless of survey results and conclusions given herein, desert tortoise are protected by applicable State and/or federal laws, including but not exclusive to the CESA and Federal ESA. As such, if a desert tortoise is found on-site during work activities, all activities likely to affect the animal(s) should cease immediately and regulatory agencies should be contacted to determine appropriate management actions. Importantly, nothing given in this report, including any recommended avoidance, minimization and mitigation measures, is intended to authorize the incidental take of desert tortoise or any other listed species during Project activities. Such authorization must come from the appropriate regulatory agencies, including CDFW (i.e., authorization under section 2081 of the FGC) and USFWS. Additionally, it should be noted that desert tortoise may be handled only by a qualified biologist who has been given authorization by the appropriate agencies (i.e. USFWS and CDFW).

### Burrowing owl

No evidence of BUOW was found in the survey area. No BUOW individuals or sign including pellets, feathers or whitewash were observed. Therefore, BUOW are currently considered absent from the Project site. However, because there is suitable creosote bush scrub and allscale scrub habitat on site and there are documented BUOW occurrences to the southeast of the Project area, future BUOW occupation could potentially occur.

Therefore, the following precautionary measure is recommended to avoid potential impacts to BUOW during operations of the burrow pit.

\*The measures above for desert tortoise apply to this species as well.

### Golden Eagle

The proposed work area will be outside of the direct line of site and over 2,500 feet away from nesting GOEA. Project-related impacts to GOEA will be less than significant and no direct impacts will result.

Since the south half of the Project boundary provides potentially suitable nesting habitat for GOEA the following precautionary measure is recommended to avoid potential impacts to nesting GOEA during operations of the burrow pit.

- 1. Have a pre-construction survey performed to verify the continued absence of this species in the area of operations.
- 2. If GOEA are found, avoid work during the nesting season for this species which is February 1-August 31.

### **Nesting Birds**

The federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C 703-711) provides protection for nesting birds that are both residents and migrants whether or not they are considered sensitive by resource agencies. The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). The direct injury or death of a migratory bird, due to construction activities or other construction-related disturbance that causes nest abandonment, nestling abandonment, or forced fledging would be considered take under federal law. The USFWS, in coordination with the CDFW administers the MBTA. CDFW's authoritative nexus to MBTA is provided in FGC Sections 3503.5 which protects all birds of prey and their nests and FGC Section 3800 which protects all non-game birds that occur naturally in the State.

Vegetation suitable for nesting birds does exist within and adjacent to the Project area. Most birds are protected by the MBTA. In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season, which is generally January/February to August/September, and by conducting a worker environmental awareness training. However, if all work cannot be conducted outside of nesting season, a Project-specific Nesting Bird Management Plan can be prepared to determine suitable buffers.

• Preconstruction Nesting Bird Surveys are recommended prior to new land disturbing activities that fall within the bird nesting season (April 15 – August 31). The nesting bird surveys would serve to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the biologist has determined the young birds have successfully fledged and the nest is inactive.

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### PLANT SPECIES OBSERVED

Latin Name	Common name	<b>Growth form</b>	Status	Family
Hesperoyucca whipplei	Chaparral yucca	Shrub	native	Agavaceae
Yucca brevifolia	Joshua tree	Tree	native	Agavaceae
Yucca schidigera	Mohave yucca	Tree	native	Agavaceae
Ambrosia acanthicarpa	Annual burrweed	Annual herb	native	Asteraceae
Ambrosia dumosa	Burro weed	Shrub	native	Asteraceae
Ambrosia salsola	Burrobrush	Shrub	native	Asteraceae
Chaenactis fremontii	Fremont pincushion	Annual herb	native	Asteraceae
Chaenactis stevioides	Esteve pincushion	Annual herb	native	Asteraceae
Ericameria linearifolia	Interior goldenbush	Shrub	native	Asteraceae
Ericameria nauseosa	Rubber rabbitbrush	Shrub	native	Asteraceae
Ericameria teretifolia	Green rabbitbrush	Shrub	native	Asteraceae
Gutierrezia microcephala	Sticky snakeweed	Shrub (stem succulent)	native	Asteraceae
	~ · · · · · · · ·		invasive non-	
Lactuca serriola	Prickly lettuce	Annual herb	native	Asteraceae
Lasthenia gracilis	Needle goldfields	Annual herb	native	Asteraceae
ayia glandulosa	White layia	Annual herb	native	Asteraceae
ang to Secretarious	California		1441.0	Tisteracouc
Logfia filaginoides	cottonrose	Annual herb	native	Asteraceae
Malacothrix coulteri	Snake's head	Annual herb	native	Asteraceae
Malacothrix glabrata	Desert dandelion	Annual herb	native	Asteraceae
Senecio flaccidus	Shrubby ragwort	Shrub	native	Asteraceae
Stylocline micropoides	Desert nest straw	Annual herb	native	Asteraceae
Syntrichopappus	Lemmon's			
emmonii	syntrichopappus	Annual herb	native	Asteraceae
Tetradymia axillaris	Catclaw horsebrush	Shrub	native	Asteraceae
Tetradymia spinosa	Spiny horsebrush	Shrub (stem succulent)	native	Asteraceae
Tropappus lindleyi	Silver puffs	Annual herb	native	Asteraceae
Kylorhiza tortifolia	Mojave woodyaster	Perennial herb	native	Asteraceae
Amsinckia tessellata	Devil's lettuce	Annual herb	native	Boraginaceae
Cryptantha barbigera	Bearded cryptantha	Annual herb	native	Boraginaceae
C	Western forget me	A		D
Cryptantha circumscissa	not	Annual herb	native	Boraginaceae
	Guadalupe island			<b>.</b>
Cryptantha maritima	cryptantha	Annual herb	native	Boraginaceae
	Winged nut forget		.•	ъ .
Cryptantha pterocarya	me not	Annual herb	native	Boraginaceae
	Chuckwalla			
Pectocarya heterocarpa	pectocarya	Annual herb	native	Boraginaceae
Phacelia fremontii	Fremont's phacelia	Annual herb	native	Boraginaceae
	Tansy leafed			
Phacelia tanacetifolia	phacelia	Annual herb	native	Boraginaceae
	Arizona popcorn			
Plagiobothrys arizonicus	flower	Annual herb	native	Boraginaceae
	Yellow tansy			
Descurainia pinnata	mustard	Annual herb	native	Brassicaceae
			invasive non-	
Hirschfeldia incana	Mustard	Perennial herb	native	Brassicaceae
Sisymbrium altissimum	Tumble mustard	Annual herb	non-native	Brassicaceae
Гhysanocarpus	Narrow leaved			
desertorum	lacepod	Annual herb	native	Brassicaceae
	Small flowered			
Vemacladus sigmoideus	nemacladus	Annual herb	native	Campanulaceae

Cove Burrow Pit Project Biological Resources Assessment

Latin Name	Common name	<b>Growth form</b>	Status	Family
Atriplex canescens	Hoary saltbush	Shrub	native	Chenopodiaceae
Crassula connata	Sand pygmy weed	Annual herb	native	Crassulaceae
Juniperus californica	California juniper	Shrub	native	Cupressaceae
Ephedra nevadensis	Nevada ephedra	Shrub	native	Ephedraceae
Acmispon strigosus	Strigose lotus	Annual herb	native	Fabaceae
Lupinus bicolor	Lupine	Annual, Perennial herb	native	Fabaceae
Lupinus concinnus	Bajada lupine	Annual herb	native invasive non-	Fabaceae
Erodium cicutarium	Coastal heron's bill	Annual herb	native	Geraniaceae
Salvia carduacea	Thistle sage	Annual herb	native	Lamiaceae
Salvia dorrii	Dorr's sage Mexican bladder	Shrub	native	Lamiaceae
Scutellaria mexicana	sage Veatch's blazing	Shrub	native	Lamiaceae
Mentzelia veatchiana	star	Annual herb	native	Loasaceae
Camissoniopsis pallida	Pale yellow sun cup Clavate fruited	Annual herb	native	Onagraceae
Chylismia claviformis	primrose	Annual, Perennial herb	native	Onagraceae
Tetrapteron palmeri	Palmer's sun cup	Annual herb	native	Onagraceae
Castilleja chromosa Eschscholzia	Desert paintbrush	Perennial herb	native	Orobanchaceae
glyptosperma Eschscholzia minutiflora	Desert gold poppy Coville's pygmy	Annual herb	native	Papaveraceae
ssp. covillei	poppy Foxtail chess,	Annual herb	native	Papaveraceae
Bromus madritensis	foxtail brome	Annual grass	non-native	Poaceae
Elymus elymoides	Squirrel tail grass	Perennial grass	native	Poaceae
Hilaria rigida	Big galleta	Perennial grass	native	Poaceae
Melica imperfecta	Coast range melic	Perennial grass	native invasive non-	Poaceae
Schismus barbatus	Old han schismus	Annual grass	native	Poaceae
Stipa hymenoides	Indian rice grass Broad flowered	Perennial grass	native	Poaceae
Gilia latiflora	gilia	Annual herb	native	Polemoniaceae
Gilia stellata	Star gilia California	Annual herb	native	Polemoniaceae
Eriogonum fasciculatum	buckwheat Angle stermed	Shrub	native	Polygonaceae
Eriogonum maculatum	buckwheat	Annual herb	native	Polygonaceae
Delphinium parishii	Parish's larkspur	Perennial herb	native	Ranunculaceae
Thamnosma montana	Turpentine broom	Shrub	native	Rutaceae
Lycium andersonii Cylindropuntia	Anderson thornbush	Shrub	native	Solanaceae
echinocarpa Cylindropuntia	Silver cholla Branched pencil	Shrub (stem succulent)	native	Cactaceae
ramosissima Echinocereus	cholla	Shrub (stem succulent)	native	Cactaceae
engelmannii	Calico cactus	Shrub (stem succulent)	native	Cactaceae

Table 1. Database Queries (CNDDB, IPAC, CNPSEI) Results

Scientific Name	Common Name	Federal Status	State Status	Other Statuses	Habitats	Potential To Occur
Aquila chrysaetos	golden eagle	None	None	BLM Sensitive, CDFW Fully Protected, USFWS Birds of Conservation Concern	Broadleaved upland forest, Cismontane woodland, Coastal prairie, Great Basin grassland, Great Basin scrub, Lower montane coniferous forest, Pinon & juniper woodlands, Upper montane coniferous forest, Valley & foothill grassland	Suitable habitat on south side of property boundary and known occurrences of nest sites within 3 miles of the Project site.  Occurrence potential is moderate.
Athene cunicularia	burrowing owl	None	None	BLM Sensitive, CDFW Species of Special Concern, USFWS Birds of Conservation Concern	Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland,	Suitable habitat on north half of property and known occurrences within 3 miles of the Project site. Occurrence potential is moderate.
Falco mexicanus	prairie falcon	None	None	CDFW Watch List, USFWS Birds of Conservation Concern	Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland. Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores.	Suitable habitat on north half of property and known occurrences within 3 miles of the Project site. Occurrence potential is moderate.
Gymnogyps californianus	California condor	Endangered	Endangered	Fully protected	Semi-arid mountain ranges surrounding the southern San Joaquin Valley	Outside of species current range. Species is absent.
Toxostoma bendirei	Bendire's thrasher	None	None	BLM Sensitive, CDFW Species of Special Concern, IUCN Vulnerable, NABCI Red Watch List, USFWS Birds of Conservation Concern	Migratory; local spring/summer resident in flat areas of desert succulent shrub/Joshua tree habitats in Mojave Desert. Nests in cholla, yucca, Palo Verde, thorny shrub, or small tree, usually 0.5 to 20 feet above ground.	Suitable habitat on north half of property and known occurrences within 3 miles of the Project site. Occurrence potential is moderate.

Scientific Name	Common Name	Federal Status	State Status	Other Statuses	Habitats	Potential To Occur
Toxostoma lecontei	Le Conte's thrasher	None	None	CDFW Species of Special Concern, NABCI Red Watch List, USFWS_BCC- Birds of Conservation Concern	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats. Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	Suitable habitat on north half of property and known occurrences within 3 miles of the Project site. Occurrence potential is moderate. Species present.
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	None	None	CDFW Species of Special Concern	Desert border areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon- juniper, etc. Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	Potentially suitable habitat in adjacent areas. Species was not observed during survey. Occurrence potential is moderate.
Corynorhinus townsendii	Townsend's big-eared bat	None	None	BLM Sensitive, CDFW Species of Special Concern, IUCN Least Concern, USFS Sensitive, WBWG High Priority	Broadleaved upland forest, Chaparral, Chenopod scrub, Great Basin grassland, Great Basin scrub, Joshua tree woodland, Lower montane coniferous forest, Meadow & seep, Mojavean desert scrub, Riparian forest, Riparian woodland, Sonoran desert scrub, Sonoran thorn woodland, Upper montane coniferous forest, Valley & foothill grassland.	Suitable habitat on site. Species was not observed during survey. Occurrence potential is moderate.
Eumops perotis californicus	western mastiff bat	None	None	BLM Sensitive, CDFW Species of Special Concern, WBWG High Priority	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc. Roosts in crevices in cliff faces, high buildings, trees and tunnels.	Suitable habitat on site. Species was not observed during survey. Occurrence potential is moderate.
Lasionycteris noctivagans	silver-haired bat	None	None	IUCN Least Concern WBWG Medium Priority	Primarily a coastal and montane forest dweller, feeding over streams, ponds & open brushy areas. Roosts in hollow trees, beneath exfoliating bark, abandoned woodpecker holes, and rarely under rocks. Needs drinking water.	Marginally suitable habitat on site. Species was not observed during survey. Occurrence potential is low.

Cove Burrow Pit Project Biological Resources Assessment

Scientific Name	<b>Common Name</b>	Federal Status	State Status	Other Statuses	Habitats	Potential To Occur
Xerospermophilus mohavensis	Mohave ground squirrel	None	Threatened	BLM Sensitive, IUCN Vulnerable	Open desert scrub, alkali scrub & Joshua tree woodland. Also feeds in annual grasslands. Restricted to Mojave Desert. Prefers sandy to gravelly soils, avoids rocky areas. Uses burrows at base of shrubs for cover. Nests are in burrows.	Outside of species current range. Previous records to the north are from a population thought to be extripated. Potentially suitable habitat in adjacent areas.  Occurrence potential is low in the adjacent areas.
Gopherus agassizii	desert tortoise	Threatened	Threatened	IUCN Vulnerable	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat. Require friable soil for burrow and nest construction. Creosote bush habitat with large annual wildflower blooms preferred.	Suitable habitat in the flatter portions of the site surrounding the hillside rock outcrops. No evidence of this species was observed during survey. Occurrence potential is low to moderate.
Acanthoscyphus parishii var. goodmaniana	Cushenbury oxytheca	Endangered	None	1B.1	On limestone talus and rocky slopes in pinyon and juniper woodland, 1400-2360 m	Low to no probability of occurrence. No carbonate/limestone soil habitat on site and below known elevational range. Species not found on site during surveys.
Astragalus albens	Cushenbury milk- vetch	Endangered	None	1B.1	On carbonate soils in Joshua Tree Woodland and Pinyon-Juniper Woodland, 1200-1900 m	Low to no probability of occurrence. No carbonate/limestone soil habitat on site and below known elevational range. Species not found on site during surveys.
Boechera shockleyi	Shockley's rockcress	None	None	2B.2	Ridges, rocky outcrops, and openings on limestone or quartzite within pinyon and juniper woodland, 875- 2515 m	Low probability of occurrence. Lucerne sandy loam is granitic but nearest occurrence and the western most for the species is 27.25 km by air ESE. Species not found on site during surveys.

Cove burrow pit Project Biological Resources Assessment

Scientific Name	Common Name	Federal Status	State Status	Other Statuses	Habitats	Potential To Occur
Calochortus striatus	alkali mariposa-lily	None	None	1B.2	Alkaline meadows and washes in chaparral, chenopod scrub, Mojavean desert scrub, meadows and seeps, 70-1600 m	Low probability of occurrence. Lucerne sandy loam is granitic and the nearest occurrence and the western most for the species is <5 km by air SW. Species not found on site during surveys.
Canbya candida	white pygmy-poppy	None	None	4.2	Gravelly, sandy, and granitic soils in Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland, 600-1460 m	Low to no probability of occurrence. No carbonate/limestone soil habitat on site. Species not found on site during surveys.
Cryptantha clokeyi	Clokey's cryptantha	None	None	1B.2	Sandy or gravelly soils in Mojavean desert scrub/creosote bush scrub, 750-1890 m	Moderate probability of occurrence. Several known occurrences are ≤ 10 km by air. Species not found on site during surveys.
Cymopterus multinervatus	purple-nerve cymopterus	None	None	2B.2	Sandy or gravelly soils in Mojavean desert scrub, pinyon and juniper woodland, 765-2195 m	Moderate probability of occurrence. Several known occurrences are ≤ 10 km by air. Species not found on site during surveys.
Diplacus mohavensis	Mojave monkeyflower	None	None	1B.2	Dry sandy or rocky washes along the Mojave River, 660-1270 m	Moderate probability of occurrence. Appropriate habitat on site, nearest occurrence is 17.25 km ENE by air. Species not found on site during surveys.
Elymus salina	Salina Pass wild rye	None	None	2B.3	Rocky sites in Pinyon & juniper woodlands, 880-2865 m	No pinyon juniper woodland on site. Probability of occurrence is low. Species not found on site during surveys.

Cove Burrow Pit Project Biological Resources Assessment

Scientific Name	Common Name	Federal Status	State Status	Other Statuses	Habitats	Potential To Occur
Menodora spinescens var. mohavensis	Mojave menodora	None	None	1B.2	Rocky hillsides, canyons, and Andesite gravel within Mojavean desert scrub, 700-1405 m	Moderate probability of occurrence. Suitable habitat on site, nearest occurrence is 18.5 km ENE by air. Species not found on site during surveys.
Mentzelia tridentata	creamy blazing star	None	None	1B.3	Mojavean desert scrub, creosote bush scrub, 545-1100 m	Moderate probability of occurrence. Suitable habitat on site, nearest occurrence is 18.5 km ENE by air. Species not found on site during surveys.
Pediomelum castoreum	Beaver Dam breadroot	None	None	1B.2	Sandy soils, washes, and roadcuts in Joshua tree woodland and Mojavean desert scrub, 640-1485 m	Moderate probability of occurrence. Suitable habitat on site, nearest occurrence is 18.5 km ENE by air. Species not found on site during surveys.
Phacelia parishii	Parish's phacelia	None	None	1B.1	Alkaline flats and slopes or clay soils within Mojavean desert scrub and playas, 540-875 m	Low to no probability of occurrence. No alkaline habitat or clay soils on site outside of distribution of the species. Species not found on site during surveys.
Plagiobothrys parishii	Parish's popcornflower	None	None	1B.1	Alkaline soils within mesic sites in Great Basin scrub and Joshua tree woodland, 750-1400 m	Low to no probability of occurrence. No alkaline habitat or clay soils on site outside of distribution of the species. Species not found on site during surveys.

Cove Burrow Pit Project Biological Resources Assessment

Scientific Name	<b>Common Name</b>	Federal Status	State Status	Other Statuses	Habitats	Potential To Occur
Puccinellia parishii	Parish's alkali grass	None	None	1B.1	Alkali springs and seeps in deserts. 700-1000 m.	Low to no probability of occurrence. No alkaline habitat or clay soils on site outside of distribution of the species. Species not found on site during surveys.
Puccinellia simplex	California alkali grass	None	None	1B.2	Meadows and seeps, chenopod scrub, valley and foothill grasslands, vernal pools, 1-915 m	Low to no probability of occurrence. No suitable habitat on site Species not found on site during surveys.
Rosa woodsii var. glabrata	Cushenbury rose	None	None	1B.1	Mojavean desert scrub, springs, 1095- 1220 m	occurrence. Appropriate habitat on site, nearest occurrence is >30 km E by air. Species not found on site during surveys.
Saltugilia latimeri	Latimer's woodland- gilia	None	None	1B.2	Rocky or sandy substrate in washes or limestone within chaparral, Mojavean desert scrub, and pinyon and juniper woodland, 120-2200 m	Moderate probability of occurrence. Appropriate habitat on site, nearest occurrence is >30 km E by air. Species not found on site during surveys.
Sidalcea neomexicana	salt spring checkerbloom	None	None	2B.2	Alkali springs and marshes within chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub, 3-2380 m	Low to no probability of occurrence. No alkaline mesic habitat on site and above elevational distribution of the species. Species not found on site during surveys.
Sidalcea pedata	bird-foot checkerbloom	Endangered	Endangered	1B.1	Moist meadows in open woodland (yellow pine), 1520-2500 m	Low to no probability of occurrence. No alkaline mesic habitat on site and above elevational distribution of the species. Species not found on site during surveys.

Cove Burrow Pit Project Biological Resources Assessment

Scientific	Name	Common Name	Federal Status	State Status	Other Statuses	Habitats	<b>Potential To Occur</b>	
	Coding and Terms							
E = Endangered	T = Threatened	C = Candidate	FP = Fully Protected	SSC = Speci	es of Special Concern	R = Rare		

**State Species of Special Concern:** An administrative designation given to vertebrate species that appear to be vulnerable to extinction because of declining populations, limited acreages, and/or continuing threats. Raptor and owls are protected under section 3502.5 of the California Fish and Game code.

**State Fully Protected:** Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

#### **Global Rankings (Species or Natural Community Level):**

- G1 = Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 = Imperiled At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3 = Vulnerable At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
- G4 = Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 = Secure Common; widespread and abundant.

**Subspecies Level:** Taxa which are subspecies or varieties receive a taxon rank (T-rank) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa*. The T-rank refers only to the global condition of ssp. *phaea*.

#### **State Ranking:**

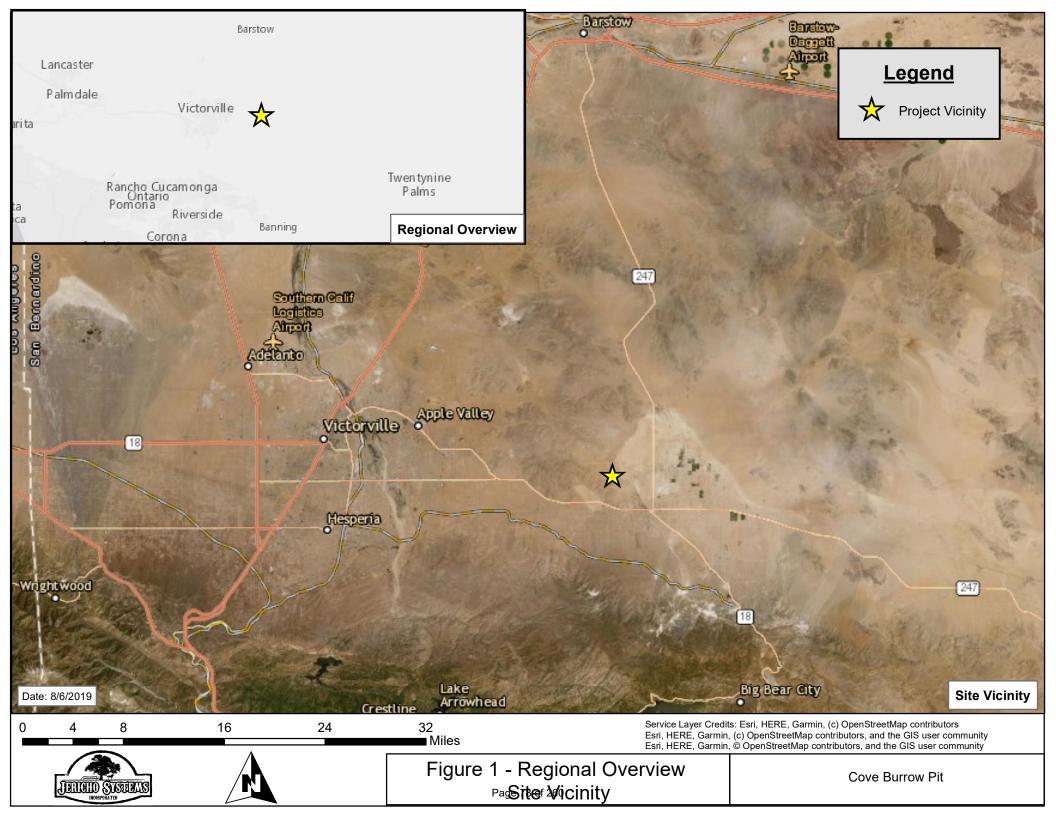
- S1 = Critically Imperiled Critically imperiled in the State because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
- S2 = Imperiled Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the State.
- S3 = Vulnerable Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the State.
- S4 = Apparently Secure Uncommon but not rare in the State; some cause for long-term concern due to declines or other factors.
- S5 = Secure Common, widespread, and abundant in the State.

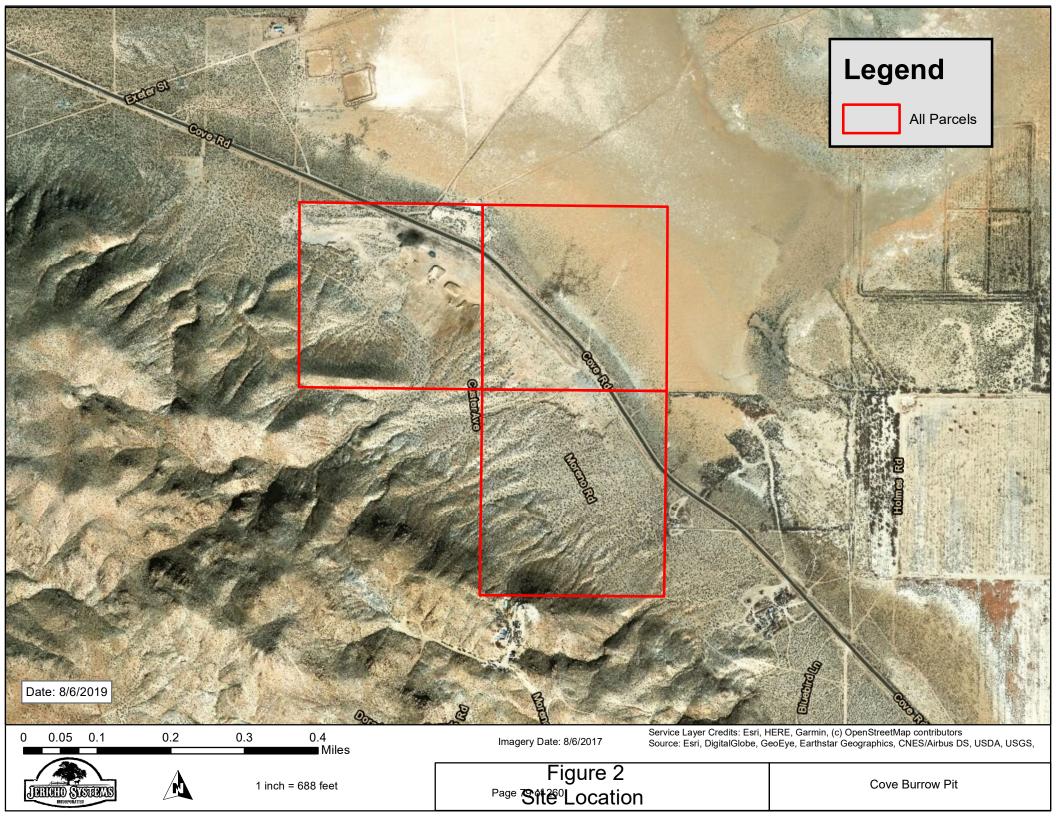
#### California Rare Plant Rankings (CNPS List):

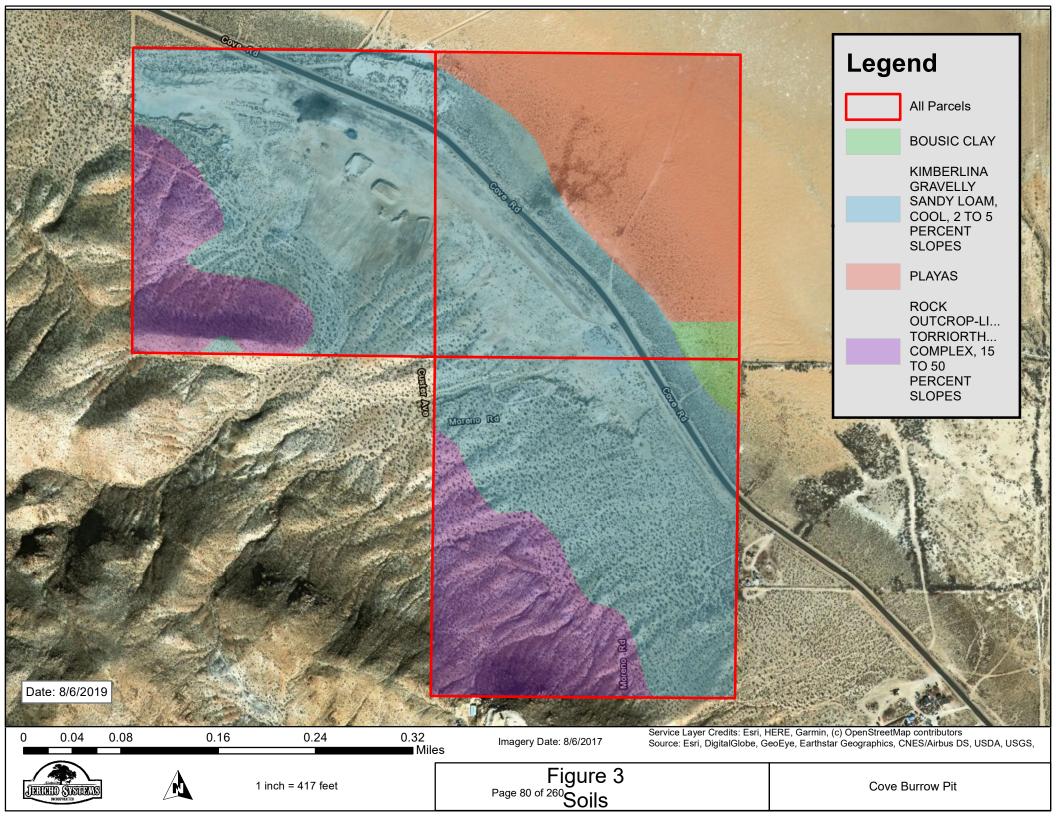
- 1A = Plants presumed extirpated in California and either rare or extinct elsewhere.
- 1B = Plants rare, threatened, or endangered in California and elsewhere.
- 2A = Plants presumed extirpated in California, but common elsewhere.
- 2B = Plants rare, threatened, or endangered in California, but more common elsewhere.
- 3 = Plants about which more information is needed; a review list.
- 4 = Plants of limited distribution; a watch list.

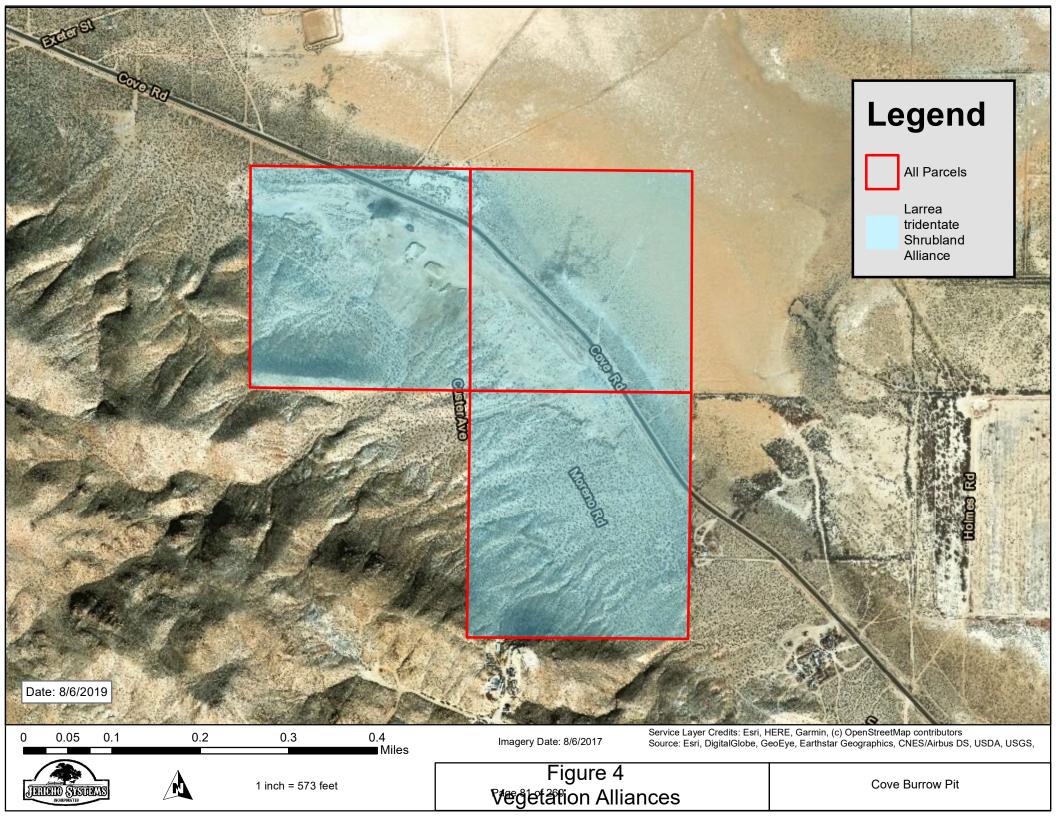
#### **Threat Ranks:**

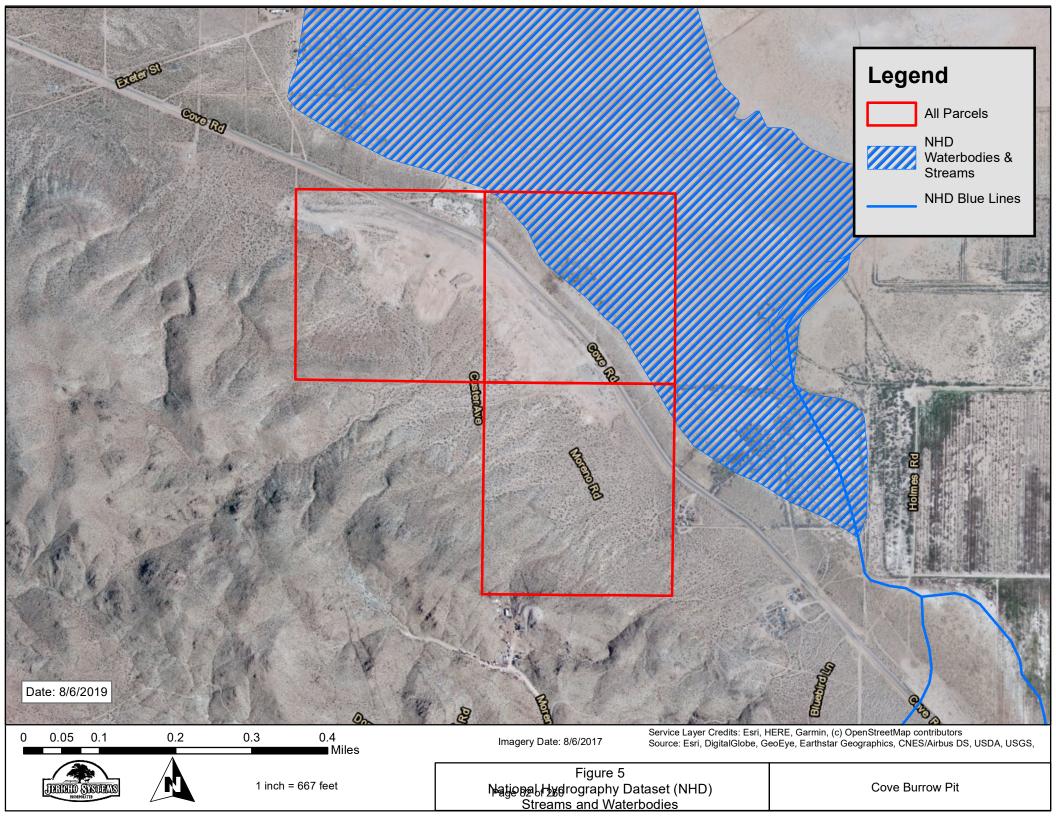
- .1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2 = Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- .3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

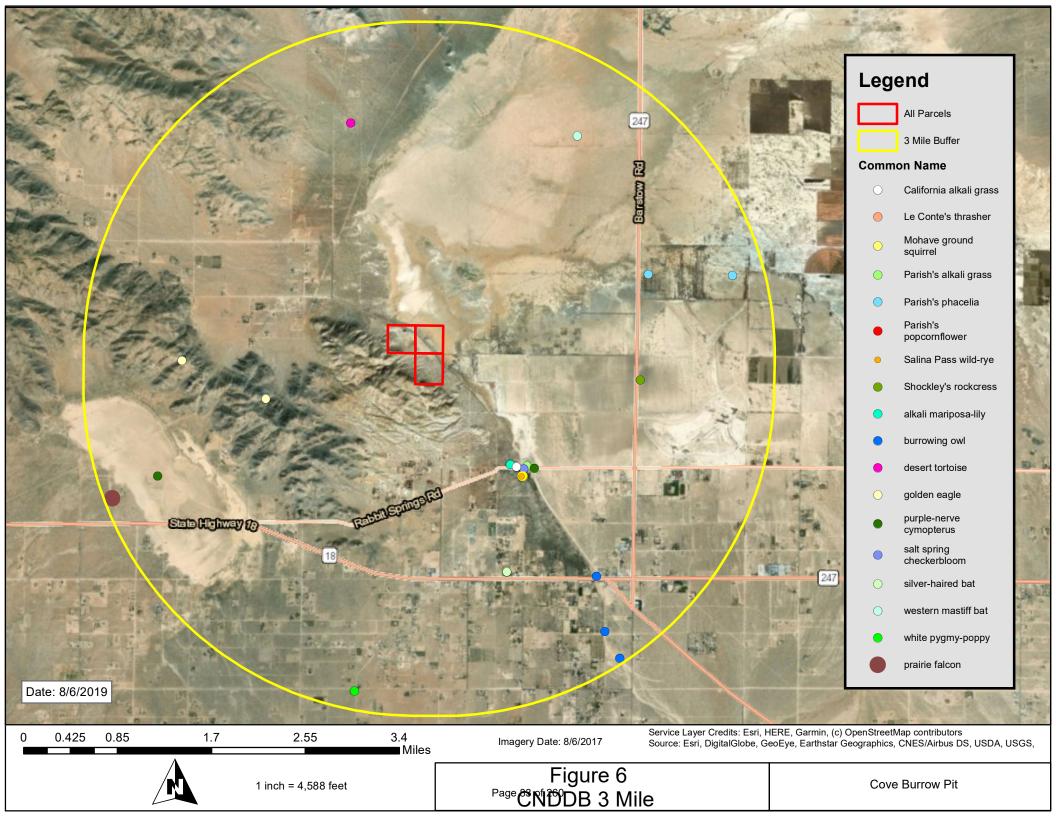




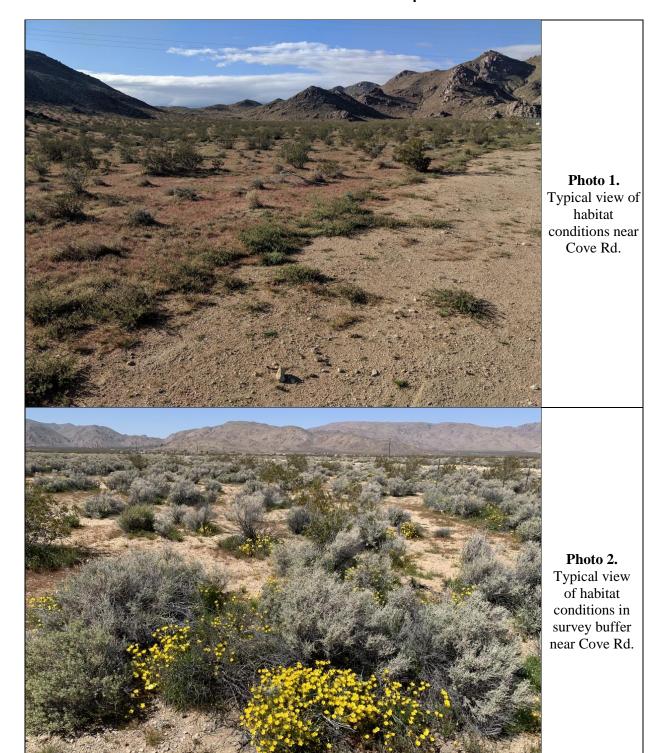


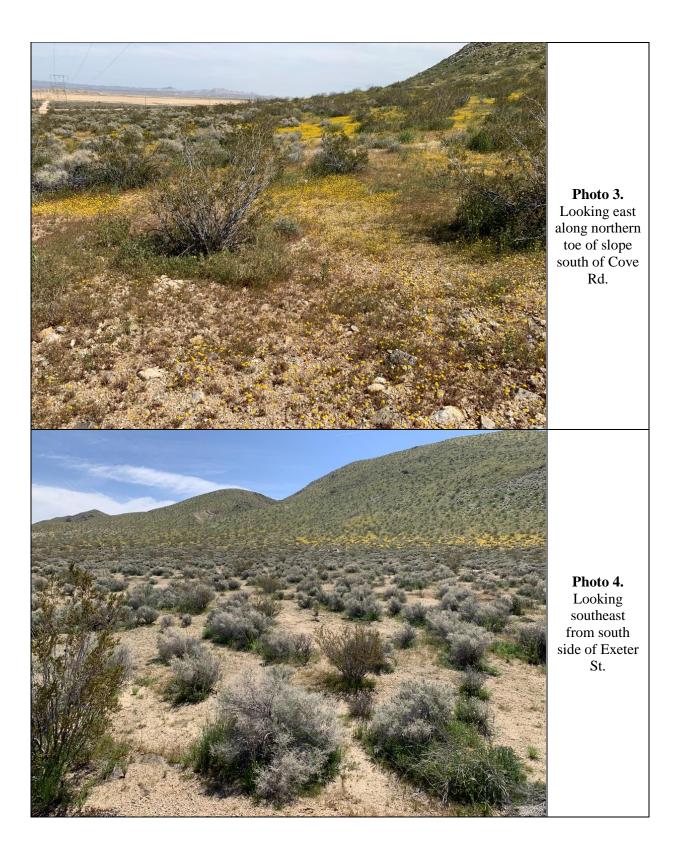


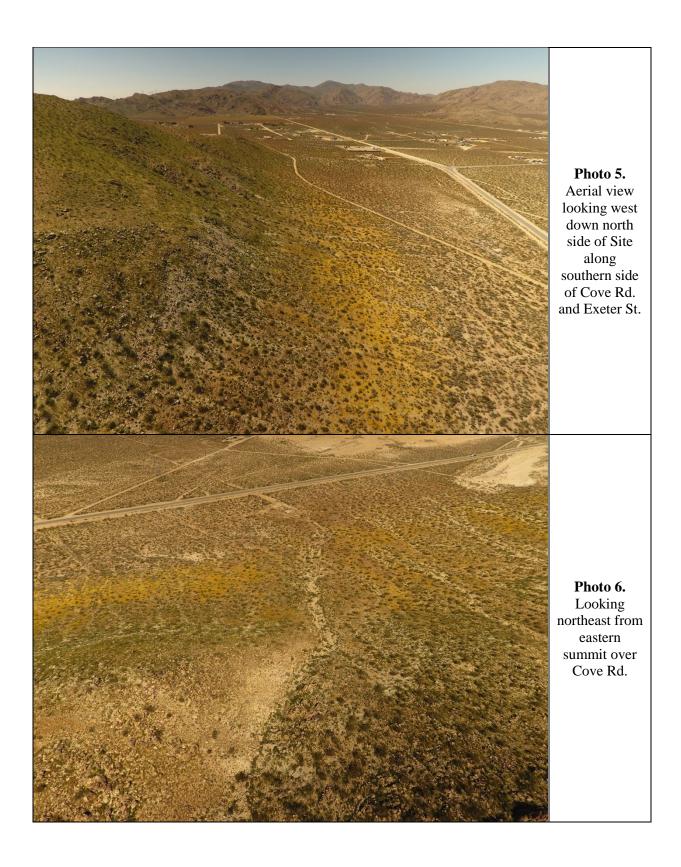




## **Cove Burrow Pit Site Photos - April 2019**







### **Regulatory Framework**

### Federal Endangered Species Act (ESA)

The U.S. Fish and Wildlife Service (USFWS) administers the federal ESA of 1973. The ESA provides a legal mechanism for listing species as either threatened or endangered, and a process of protection for those species listed. Section 9 of the ESA prohibits "take" of threatened or endangered species. The term "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in such conduct. "Take" can include adverse modification of habitats used by a threatened or endangered species during any portion of its life history. Under the regulations of the ESA, the USFWS may authorize "take" when it is incidental to, but not the purpose of, an otherwise lawful act. Take authorization can be obtained under Section 7 or Section 10 of the act.

#### California Endangered Species Act (CESA)

The CDFW, formerly Fish and Game, administers the State CESA. The State of California considers an endangered species one whose prospects of survival and reproduction are in immediate jeopardy. A threatened species is one present in such small numbers throughout its range that it is likely to become an endangered species soon, in the absence of special protection or management. And a rare species is one present in such small numbers throughout its range that it may become endangered if its present environment worsens. Rare species applies to California native plants. Further, all raptors and their nests are protected under Section 3503.5 of the California Fish and Game Code (FGC). Species that are California fully protected include those protected by special legislation for various reasons, such as the California condor. Species of Special Concern (SSC) is an informal designation used by CDFW for some declining wildlife species that are not proposed for listing as threatened or endangered. This designation does not provide legal protection but signifies that these species are recognized as sensitive by CDFW.

### Migratory Bird Treaty Act (MBTA)

Nesting birds are protected under the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C 703-711). The MBTA provides protection for nesting birds that are both residents and migrants whether or not they are considered sensitive by resource agencies. The MBTA prohibits take of nearly all native birds. The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). The direct injury or death of a migratory bird, due to construction activities or other construction-related disturbance that causes nest abandonment, nestling abandonment, or forced fledging would be considered take under federal law. The USFWS, in coordination with the CDFW administers the MBTA. CDFW's authoritative nexus to MBTA is provided in FGC Sections 3503.5 which protects all birds of prey and their nests and FGC Section 3800 which protects all non-game birds that occur naturally in the State.

### Clean Water Act (CWA)

The CWA is the principal federal law that governs pollution in the nation's lakes, rivers, and coastal waters. Originally enacted in 1972 as a series of amendments to the Federal Water Pollution Control Act of 1948, the Act was last amended in 1987. The overriding purpose of the CWA is to "restore and maintain the chemical, physical and biological integrity of the nation's waters." The statute employs a variety of regulatory and non-regulatory tools to eliminate the discharge of pollutants into the nation's waters and achieve water quality that is both "swimmable and fishable".

Under Section 404 of the CWA, the Corps has primary federal responsibility for administering regulations that concern the discharge of dredged or fill material into WoUS (including wetlands). WoUS are defined as: "All waters used in interstate or foreign commerce; all interstate waters including interstate wetlands; all other waters such as intrastate lakes, rivers, streams (including intermittent and ephemeral streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes or natural ponds, where the use, degradation, or destruction of which could affect interstate commerce; impoundments of these waters; tributaries of these waters; or wetlands adjacent to these waters" (Section 404 of the CWA; 33 CFR 328).

The limit of the Corps jurisdiction for non-tidal waters (including non-tidal perennial and intermittent watercourses and tributaries to such watercourses) in the absence of adjacent wetlands is defined by the ordinary high-water mark (OHWM). The OHWM is defined as: "The line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" (Section 404 of the CWA; 33 CFR 328). Wetlands are defined as: "Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (Section 404 of the CWA; 33 CFR 328).

### Porter-Cologne Water Quality Control Act (Porter-Cologne)

The Porter-Cologne Water Quality Control Act (Porter-Cologne) is the principal State law that governs water protection efforts in California. Porter-Cologne establishes the State Water Resources Control Board (SWRCB) and each of the nine Regional Water Quality Control Boards (RWQCBs) as the principal state agencies for coordinating and controlling water quality in California. The RWQCB's regulatory jurisdiction is pursuant to Section 401 of the Federal CWA. The RWQCB typically regulates discharges of dredged or fill material into WoUS. However, they also have regulatory authority over waste discharges into Waters of the State, which may be isolated, under Porter-Cologne. In the absence of a nexus with the Corps, the RWQCB requires the submittal of a Waste Discharge Requirement (WDR) application, which must include a copy of the Project Storm Water Pollution Prevention Plan (SWPPP) and a copy of the Project Water Quality Management Plan (WQMP), otherwise called a Standard Urban Stormwater Management Plan (SUSMP). The RWQCB's role is to ensure that disturbances in the stream channel do not cause water quality degradation.

### California Fish and Game Code (FGC)

Sections 1600 to 1616 of the California FGC require any person, state, or local government agency or public utility to notify the CDFW before beginning any activity that will substantially modify a river, stream, or lake. If it is determined that the activity could substantially adversely impact an existing fish and wildlife resource, then a Lake or Streambed Alteration Agreement is required.

Like the Corps and RWQCB, the CDFW also regulates discharges of dredged or fill material. The regulatory jurisdiction of CDFW is much broader however, than Corps or RWQCB jurisdictions. CDFW regulates **all** activities that alter streams and lakes and their associated habitats. The CDFW, through provisions of the FGC Sections 1601-1603 is empowered to issue agreements for any alteration of a river, stream, or lake where fish or wildlife resources may be adversely affected. Streams (and rivers) are defined by the presence of a channel bed and banks and at least an intermittent flow of water. The CDFW typically extends the limits of their jurisdiction laterally beyond the channel banks for streams that support riparian vegetation. In these situations, the outer edge of the riparian vegetation is generally used as the lateral

extent of the stream and CDFW jurisdiction. wetlands are a part of a river, stream, or lake a	CDFW regulates wetland areas only to the extent that those as defined by CDFW.

# Revegetation Plan For the Cove Quarry

Community of Lucerne San Bernardino County, California Lucerne Valley USGS – 7.5 Minute Quadrangle South 1/2 of Section 33, Township 5 North, Range 1 West

### Prepared for:

# **Lilburn Corporation**

Attn: Martin Derus 1905 Business Center Drive San Bernardino, CA 92408

Prepared August 2019

Prepared by:



Jericho Systems, Inc. 47 1<sup>st</sup> Street, Suite 1 Redlands, CA 92373-4601

# Certification

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Certification: I hereby certify that the statements furnished herein, and in the attached exhibits present data and information required for this Biological Resources Repot to the best of my ability, and the facts, statements, and information presented are true and correct to the best of my knowledge and belief. This report was prepared in accordance with professional requirements and standards. Fieldwork conducted for this assessment was performed by me. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project proponent and that I have no financial interest in the project.

Shay Lawrey, Ecologist/Regulatory Specialist

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California Native Plant Society guidelines (CNPS, 2019) and modified based on Keeley and Fotheringham, (2005)

# 1 Introduction

On behalf of Lilburn Corporation, Jericho Systems, Inc. (Jericho) gathered the baseline plant community information necessary to prepare a revegetation plan, per Section 3705 (*Performance Standards for Revegetation*) of the California State Mining and Geology Board's Surface Mining and Reclamation Act (SMARA) requirements for a property owned by the County of San Bernardino Department of Public Works (DPW) and referred to the Cove Quarry (Project). The DPW is the lead agency overseeing the mine permitting. The Project consists of permitted mining use over the next 100 years. The Project plans hillside mining from existing grade to property line setback 50ft, slope 3:1.

The property surveyed (which included the Project area) is approximately 124.5 acres in size and is located near the intersection of Cove Road with Exeter Street/Banta Road, northwest of the community of Lucerne and can be found on the *Lucerne Valley* U.S. Geological Survey (USGS) 7.5-minute series quadrangle within the South 1/2 of Section 33, Township 5 North, Range 1 West (Figures 1-2).

The goal of the revegetation plan is to establish the guidelines to monitor, maintain, and assess the results of the completed revegetation program through comparison to the established baseline data and recommended success criteria, in the event that such a revegetation program is needed. Reclamation of any vegetated areas would commence immediately upon termination of mining.

For this Revegetation Plan, baseline vegetation data was collected within the vegetated areas in and adjacent to the project site. Vegetation on site is characterized by the presence of two distinct plant communities dominated by shrubs and herbaceous understory closely corresponding with Sawyer et al.'s (2009) creosote bush-white burr sage scrub (*Larrea tridentata-Ambrosia dumosa* shrubland alliance). Other native species that are conspicuous in the shrub layer within the survey area include iodine bush (*Allenrolfea occidentalis*), burrobrush (*Ambrosia salsola*), Mormon tea (*Ephedra nevedensis*) and California goldenbush (*Ericameria lindleyi.*). The plant community is extremely diverse with a total of 70 species observed, 18 (26%) of which were shrub species and only six (9%) nonnative species.

This Plan considered the requirements set forth in Section 3705 (*Performance Standards for Revegetation*) of the California State Mining and Geology Board's Surface Mining and Reclamation Act (SMARA) which are as follows:

- a) A vegetative cover suitable for the proposed end use and capable of self-regeneration without continued dependence on irrigation, soil amendments or fertilizer shall be established on disturbed land unless an artificially maintained landscape is consistent with the approved reclamation plan. Vegetative cover or density, and species-richness shall be, where appropriate, sufficient to stabilize the surface against effects of long-term erosion and shall be similar to naturally occurring habitats in the surrounding area. The vegetative density, cover and species richness of naturally occurring habitats shall be documented in baseline studies carried out prior to the initiation of mining activities. However, for areas that will not be reclaimed to prior conditions, the use of data from reference areas in lieu of baseline site data is permissible.
- b) Test plots conducted simultaneously with mining shall be required to determine the most appropriate planting procedures to be followed to ensure successful implementation of the proposed revegetation plan. The lead agency may waive the requirement to conduct test plots when the success of the proposed revegetation plan can be documented from experience with

- similar species and conditions or by relying on competent professional advice based on experience with the species to be planted.
- c) Where surface mining activities result in compaction of the soil, ripping, disking, or other means shall be used in areas to be revegetated to eliminate compaction and to establish a suitable root zone in preparation for planting.
- d) Prior to closure, all access roads, haul roads, and other traffic routes to be reclaimed shall be stripped of any remaining roadbase materials, prepared in accordance with subsection 3705(g), covered with suitable growth media or topsoil, and revegetated. When it is not necessary to remove roadbase materials for revegetative purposes, lead agencies may set a different standard as specified in section 3700(b) of this Article.
- e) Soil analysis shall be required to determine the presence or absence of elements essential for plant growth and to determine those soluble elements that may be toxic to plants, if the soil has been chemically altered or if the growth media consists of other than the native topsoil. If soil analysis suggests that fertility levels or soil constituents are inadequate to successfully implement the revegetative program, fertilizer or other soil amendments may be incorporated into the soil. When native plant materials are used, preference shall be given to slow-release fertilizers, including mineral and organic materials that mimic natural sources, and shall be added in amounts similar to those found in reference soils under natural vegetation of the type being reclaimed.
- f) Temporary access for exploration or other short-term uses on arid lands shall not disrupt the soil surface except where necessary to gain safe access. Barriers shall be installed when necessary to gain safe access. Barriers shall be installed when necessary to prevent unauthorized vehicular traffic from interfering with the reclamation of temporary access routes.
- g) Native plant species shall be used for revegetation, except when introduced species are necessary to meet the end uses specified in the approved reclamation plan. Areas to be developed for industrial, commercial, or residential use shall be revegetated for the interim period, as necessary, to control erosion. In this circumstance, non-native plant species may be used if they are not noxious weeds and if they are species known not to displace native species in the area.
- *h)* Planting shall be conducted during the most favorable period of the year for plant establishment.
- i) Soil stabilizing practices shall be used where necessary to control erosion and for successful plant establishment. Irrigation may be used when necessary to establish vegetation.
- j) If irrigation is used, the operator must demonstrate that the vegetation has been self-sustaining without irrigation for a minimum of two years prior to release of the financial assurances by the lead agency, unless an artificially maintained landscape is consistent with the approved end use.
- *k)* Noxious weeds shall be managed:
  - (1) when they threaten the success of the proposed revegetation;
  - (2) to prevent spreading to nearby areas; and
  - (3) to eliminate fire hazard.
- l) Protection measures, such as fencing of revegetated areas and/or the placement of cages over individual plants, shall be used in areas where grazing, trampling, herbivory, or other causes

- threaten the success of the proposed revegetation. Fencing shall be maintained until revegetation efforts are successfully completed and the lead agency authorizes removal.
- m) Success of revegetation shall be judged based upon the effectiveness of the vegetation for the approved end use, and by comparing the quantified measures of vegetative cover, density, and species-richness of the reclaimed mined-lands to similar parameters of naturally occurring vegetation in the area. Either baseline data or data from nearby reference areas may be used as the standard for comparison. Quantitative standards for success and the location(s) of the reference area(s) shall be set forth in the approved reclamation plan. Comparisons shall be made until performance standards are met provided that, during the last two years, there has been no human intervention, including, for example, irrigation, fertilization, or weeding. Standards for success shall be based on expected local recovery rates. Valid sampling techniques for measuring success shall be specified in the approved reclamation plan. Sample sizes must be sufficient to produce at least an 80 percent confidence level. There are standard statistical methods in commonly available literature for determining an 80 percent confidence level on a site-by-site basis.

# 2 Environmental Setting

The Project site is located in the Lucerne Valley, at the western edge of the Mojave Desert. Because this area is in proximity to montane, foothill, and desert habitats, the Project region contains plants, plant communities, and animals adapted to each of these general habitat classes. The Lucerne Valley is bounded by the Granite, Ord, and Rodman Mountains to the north and the San Bernardino Mountains to the south. The San Bernardino Mountains are the larger of these two ranges, reaching elevations in excess of 11,000 feet at the top of Mt. San Gorgonio, and receive considerable winter snowfall.

The local climate is characterized by cool winter temperatures, warm summer temperatures that are moderated somewhat by the marine influence, with its rainfall occurring almost entirely in the winter and due to this climate several unique desert plant community occur. Juniper and pinyon pines are found at higher elevations, while creosote bush scrub, yuccas, Joshua trees, grasslands, and cholla are found at lower elevations. In addition, some of the larger washes within the desert support desert riparian woodlands. However, the Joshua tree (*Yucca brevifolia*) is the signature plant of the Mojave Desert and often defines its boundaries. In the Lucerne Valley, vegetation is mainly comprised of creosote bush scrub.

Hydrologically, the Project site is within the Lucerne Lake hydrologic unit of the Colorado River hydrologic region. This watershed is not tributary to the ocean or any other water body; rather, all water either infiltrates into the groundwater basin, evaporates, or flows toward the dry lakebed of Lucerne Lake located to the northwest of the Project site. All flow channels on-site are intermittent or ephemeral and likely only receive stream flow during and following significant rain events. Typical of arid regions, the area experiences short-duration, high-intensity rainfall storm events producing potentially high rates of runoff when the initial infiltration rates are exceeded. During these periods the small, incised washes become conduits for water flow. The soil in the watershed is predominantly Soil Group D which is characterized as having high runoff potential due to very slow infiltration rates when thoroughly wetted.

Elevations on-site range from 3,352 to 2,860 feet above mean sea level. The Project site is surrounded by vacant land and low density rural residential to the west and northwest.

### 2.1 Existing Vegetation

Much of the property surveyed is relatively undisturbed, comprised of native shrubs with a low-lying understory of native and nonnative herbaceous species. Vegetation on site is characterized by the presence of two distinct plant communities. The Project site vegetation is dominated by shrubs and herbaceous understory closely corresponding with Sawyer et al.'s (2009) creosote bush-white burr sage scrub (*Larrea tridentata-Ambrosia dumosa* shrubland alliance).

Native species that are conspicuous in the shrub layer within the survey area include iodine bush (*Allenrolfea occidentalis*), burrobrush (*Ambrosia salsola*), Mormon tea (*Ephedra nevedensis*) and California goldenbush (*Ericameria lindleyi.*). The plant community is extremely diverse with a total of 74 species observed, 18 (26%) of which were shrub species and only six (9%) nonnative species. All plant species identified during survey are included in Appendix A.

The baseline inventory of flora was conducted on April 5, 6, 7 and May 19, 2019 by Jericho Systems, Inc., botanist C.J. Fotheringham PhD. The census survey was conducted within the all vegetated areas on site and adjacent to the Project site. The purpose of the plant inventory was to determine species diversity and to develop the necessary components for a successful revegetation plan. Please refer to the attached Site Photographs for a representation of conditions on site and within the surrounding habitat. A complete list of observed plant species is included as Appendix A.

## 2.2 Method for Collecting Baseline Vegetation

Methodology used to collect data needed to establish revegetation criteria was based on California Native Plant Society guidelines (CNPS, 2019) and modified based on Keeley and Fotheringham, (2005) (Appendix B). Accordingly, a 20m x 50m plot was randomly established and subdivided into 10m x 10m subplots to assess shrub density, percentage of the ground surface covered by plant canopies (%GSC) and species dominance.

For herbaceous density cover and dominance three (3) 64 m² plots were established and subdivided into nine (9) plots ranging from 0.5 to 32m². The sample unit area consisted of the southeast corner of the property where relatively undisturbed vegetation occurred. A total of three (3) 64m² plots and one 1000m² plots within the undisturbed area of the sample unit were surveyed to provide baseline data needed to determine seed and seedling types and to establish the success criteria for future revegetation efforts, if needed.

# 2.3 Baseline Survey Results

The plant community identified within the sample areas is creosote bush-white burr sage scrub based on 2.66% GSC of Ambrosia dumosa (burro weed) and 12.96 GSC of Larrea tridentata (creosote bush). The shrub layer canopy accounted for ~60% of %GSC and is dominated by creosote bush. Three non-native species, Erodium cicutarium (Coastal heron's bill), Bromus madritensis (Foxtail brome), Schismus barbatus (Old han schismus) account for ~12% of the %GSC. The native herbaceous layer accounted for 22.5% GSC with Phacelia fremontii (Fremont's phacelia), Lasthenia gracilis (needle goldfields), and Amsinckia tessellata (Devil's lettuce) accounting for the majority of %GSC in this group.

Throughout the project area, absolute shrub cover is open. Average absolute shrub cover within the sample area measured approximately 17 %GSC. Average shrub density measured 4.2 shrubs per 100

m² plot. A total of 27 shrub species were observed to occur within the site boundaries but only seven (7) within the sample areas. Please refer to Table 1 (below) for shrub density per 100m⁻² within the undisturbed portion of project area.

Herbaceous cover was nearly identical to shrub cover at 16 %GSC but density was orders of magnitudes higher at 14.29 1m<sup>-2</sup>. Herbaceous species diversity on the site was higher than shrub diversity both within the site boundaries (67) and the sampled plots (17). Please refer to Table 1 (below) for herbaceous density per 100m<sup>-2</sup> within the undisturbed portion of project area.

Table 1.
Plant Species Density and % Ground Surface Cover (%GSC)

Species	%GSC	Density (# 100m-1)	Density (# m-1)
Tree			
Yucca schidigera (Mohave yucca)	0.2	0.00	
Shrub			
Ambrosia dumosa (Burro weed)	2.66	18.2	
Echinocereus engelmannii (Calico cactus)	0.11	0.01	
Echinocactus polycephalus (Cottontop cactus)	0.01	0.01	
Ephedra nevadensis (Nevada ephedra)	0.82	1.1	
Ericameria linearifolia (Interior goldenbush)	0.41	0.3	
Larrea tridentata (Creosote bush)	12.96	5.1	
Lycium andersonii (Anderson thornbush)	0.01	0.01	
Total	16.97	24.73	
Herbaceous Speci	ies		
Delphinium parishii (Parish's larkspur)	0.07		0.07
Dichelostemma capitatum (Blue dicks)	0.44		0.01
Herbaceous Speci	ies		•
Xylorhiza tortifolia (Mojave woodyaster)	0.01		0.01
Stipa speciosa (Desert needle grass)	0.22		0.01
Amsinckia tessellata (Devil's lettuce)	3.09		2.41
Caulanthus cooperi (Cooper caulanthus)	0.08		0.18
Caulanthus lasiophyllus California mustard	3.98		1.93
Chaenactis fremontii Fremont pincushion	2.88		1.20
Chorizanthe brevicornu	0.12		0.05
Brittle spine flower			
Cryptantha pterocarya (Winged nut forget-me-not)	0.36		0.33
Descurainia pinnata (Yellow tansy mustard)	0.05		0.44
Lasthenia gracilis (Needle goldfields)	9.89		3.00
Logfia filaginoides (California cottonrose)	0.01		0.06
Mentzelia veatchiana (Veatch's blazing star)	4.31		0.49
Pectocarya heterocarpa (Chuckwalla pectocarya)	1.75		4.03
Phacelia fremontii (Fremont's phacelia)	0.02		0.07
Phacelia tanacetifolia (Tansy leafed phacelia)	0.04		0.01
Total	16.06		14.29

# 3 Revegetation

If required, revegetation of the site upon termination of mining would follow a series of steps. These steps may be modified or changed should new information or techniques that would improve the results of the revegetation activities become available. In the event that future changes to the currently proposed project footprint should occur that would impact adjacent habitat, all impacted areas currently consisting of Creosote scrub associated vegetation would be reclaimed. Success criteria and revegetation strategies were designed specifically to meet the needs of the vegetative community and environmental conditions adjacent the project site.

Studies (S. Abella *et al.* 2012, S. Abella and A Newton, 2009) have shown that Mojave Desert perennials, including some species above, should be outplanted (seedlings grown in a nursery and transplanted outside) rather than included in seed mixes.

### 3.1 Soil Salvage

The top 12 inches of topsoil within areas of white bursage scrub habitat that are impacted shall be salvaged and stockpiled for restoration. Prior to topsoil salvage, any available vegetated soils onsite will be stockpiled in separate identified stockpiles for use as a seed bank during revegetation. The topsoil salvage stockpiles will be kept on site, within the privately-owned 300-acre parcel. Exact locations of the soil stockpiles will be determined prior to clearing/grubbing activities and will be dependent upon grading plans and available space. The soil stockpiles will be clearly marked and stabilized with a breathable erosion control method such as jute netting. If the native seed bank within the removed topsoil is desired for revegetation, then the topsoil should be piled in wide rows that are a maximum of 3 feet high to prevent sterilization of the seed bank during soil storage. If the desired goal is only to retain the developed soil and chemical composition to provide additional soil richness for reseeding, then creating taller, more condensed stockpiles would be appropriate.

### 3.2 Seed Collection

The goal of seed collection is to preserve the local genetic diversity of the existing plant community while providing seed that is well suited for growth at the site. Seed collection must be undertaken and monitored by a professional seed collecting firm or a qualified botanist. When seed collection is not possible, a certified weed free seed mix may be used in lieu of seed collected at the site. Certified weed free seed mixes are available and may be purchased from professional nurseries.

# 3.3 Site Preparation

Upon termination of mining activities, the surfaces to be revegetated would be returned to their original land contours. Where possible, revegetation surfaces would be ripped to about 18 to 36 inches in depth to break up compacted areas and would be left in a textured or rough condition with shallow rills and furrows to create optimal conditions for revegetation with a native seed mix. Any available soils will be deposited in random "islands" up to one-foot thick and seeded.

Quick-growing, shallow-rooted species will be included in the seed mix to provide short-term erosion control. By providing short-term erosion control, more favorable growing conditions will be created for climax species that will provide long-term erosion control.

# 3.4 Irrigation

The plant palette proposed for the mine site consists of primarily drought-tolerant plants species that should perform well without additional water. The average precipitation in the area should be sufficient for seed germination and root establishment of native annual species but transplant shrubs may require some supplimentation.

Planting in the fall, prior to anticipated winter precipitation events, will be sufficient for seed germination and root establishment and reduce weed growth that is typically associated with supplemental irrigation. Scarification of the soil and the creation of surface rills, furrows and bowls will allow for maximized collection of water from rain events and run-off.

### 3.5 Fertilization

No fertilization of the site is recommended and use of such would promote non-native grasses and weeds. The native seeds used for revegetation will be tolerant of existing soil conditions. Additionally, the mechanical loosening, and creation of surface rills and furrows, will create conditions favorable for seed germination and root establishment by native species. Widespread use of fertilizers on desert sites appears to benefit non-native weedy species and not the native species sought as the goal of the revegetation plan (Clary, 1987).

### 3.6 Weed Control

The purpose of the non-native invasive species control plan is to reduce or eliminate the occurrence of non-native invasive plant species that may invade the site where active and natural revegetation is taking place. Non-native invasive species (weeds) can compete with native plant species for available moisture and nutrients and consequently interfere with revegetation of the site.

The occurrence of non-native invasive species on-site shall be monitored by visual inspection quarterly for the first year and then annually thereafter. The goal is to prevent non-native invasive species from becoming established and depositing seeds in revegetated areas. No areas will be allowed to have more than 10 percent non-native invasive species ground cover. If inspections reveal that non-native invasive species are becoming or have become established on site, then removal will be initiated. Inspections shall be made in conjunction with revegetation monitoring.

Non-native vegetation will be removed using the most efficient method as determined by the site conditions. Removal may occur regularly in the first year and may consists of using mechanized equipment, hand tools and/or herbicide spraying. Herbicides may be applied to control an instance where there is an aggressive and extensive weed invasion on site. All non-native, invasive weeds will be removed before they produce seed or reach a height of 8 inches, whichever comes first. Once the weed growth is under control, weeding will take on a more selective approach and be completed with hand tools and such as hoes, shovels and rakes and spraying, if essential to meet success criteria.

Reports of inspections and weed control implementation shall be part of the annual revegetation monitoring and kept on file by the Operator.

## 3.7 Seeding Methods and Rates

The revegetation area(s) will be seeded with a certified weed-free seed mix applied hydraulically (hydro-seeded) with preference for locally collected seed. Seed will be delivered to the site in sealed and labeled packaging, along with a California State Agricultural Code seed certification that includes the supplier's name, geographic location, and collection date, and the tested purity and germination

percentage rates. The seed mix will be applied by hydroseeding with a low nitrogen hydroseed slurry containing seed, natural fiber mulch, and organic tackifier. Although hydroseed mulch with seed can be carried and moved by flowing water, the mulch will help more of the seed stay in place and germinate compared to hand seeding.

A seed mix should be a subset of the native plants identified during surveys (Table 2). Species recommended were the most commonly encountered on the site and accounted for the majority of the vegetative coverage. Selection of species at the time of revegetation should be a balance of availability with some preference to species with low dispersability. The recommended seeding rate should be for a goal of total herbaceous density of 14 individuals m<sup>-2</sup> and must be calculated based factors above and on formulas presented by Jeanette Dorner (2002, p. 47-50).

Table 2. Recommended Seed Mix of the Most Common Species Accounted

Latin Name	Common name	<b>Growth form</b>	<b>Seed Dispersibility</b>
Ambrosia dumosa	Burrow weed	Shrub	Moderate
Ephedra nevadensis	Nevada ephedra	Shrub	Low
Ericameria linearifolia	Interior goldenbush	Shrub	Low
Larrea tridentata	Creosote bush	Shrub	Moderate
Lycium andersonii	Anderson thornbush	Shrub	Low
Amsinckia tessellata	Devil's lettuce	Annual herb	Moderate
Caulanthus lasiophyllus	California mustard	Annual herb	Low
Crassula connata	Sand pygmy weed	Annual herb	Low
Lasthenia gracilis	Needle goldfields	Annual herb	Low
Phacelia fremontii	Fremont's phacelia	Annual herb	Low
Pterostegia drymarioides	Fairy mist	Annual herb	Low
Salvia carduacea	Thistle sage	Annual herb	Low
Thysanocarpus laciniatus	Narrow leaved lacepod	Annual herb	Low
Chylismia claviformis	Clavate fruited primrose	Annual, Perennial herb	Low
Lupinus bicolor	Lupine	Annual, Perennial herb	Low
Melica imperfecta	Coast range melic	Perennial grass	Low
Stipa speciosa	Desert needle grass	Perennial grass	Moderate
Dichelostemma capitatum	Blue dicks	Perennial herb	Low
Eriogonum inflatum	Desert trumpet	Perennial herb	Low

# 3.8 Schedule of Revegetation

Seeding of the revegetation area(s) shall occur at the appropriate time of the year and at an application rate for optimum seed sprouting and growth. The ideal window for seeding native plants in Southern California, is in late fall generally, prior to anticipated winter precipitation events that typically occur between November and March in the project area. The contractor will need to coordinate installation efforts with any rain events to ensure that work is not being conducted on the site during periods of inundation.

Following the initial seeding, revegetation areas will be monitored quarterly for the first year and then annually thereafter. Appropriate remediation action such as reseeding and weed removal will be determined at the time of monitoring.

#### 3.9 Test Plots

Per Section 3705 (b) of the SMARA requirements:

"Test plots conducted simultaneously with mining shall be required to determine the most appropriate planting procedures to be followed to ensure successful implementation of the proposed revegetation plan. The lead agency may waive the requirement to conduct test plots when the success of the proposed revegetation plan can be documented from experience with similar species and conditions or by relying on competent professional advice based on experience with the species to be planted."

If future changes to the currently proposed project footprint should occur that would impact adjacent habitat, then the Operator shall establish at that time, a minimum four test plots representative of the slope aspect where mining will occur in areas currently consisting of white bursage scrub habitat. Test plots would include surface ripping/no seeding (control plot); surface ripping and seeding as described above with the recommended seed mixture. Additional tests would be conducted if the initial tests and any active revegetation are not successful and may include various types and amounts of seeds and different surface/soil preparation.

# 4 Revegetation Monitoring

### 4.1 Success Criteria

Successful revegetation will be achieved when a self-sustaining native plant cover is established in any areas of the proposed project where native habitat is disturbed. The revegetated site must resemble and blend into the natural surrounding environment. The success of the revegetation effort will be determined through statistical comparison of the revegetated areas to the baseline inventory.

Acceptable performance standards for mine reclamation are based on a percentage of cover, density, and species diversity when compared with the baseline. An acceptable standard at the Projectsite would measure success at 45% of the baseline cover, 45% of the baseline density, and 40% of the baseline species diversity within the shrub canopy, five years after reclamation.

### 4.2 Technical Assessment

The permanence and sustainability of the revegetated plant community will be determined annually after the initial seeding. Annual assessments of the reclamation area will be conducted by a qualified botanist to determine the success of the revegetation effort. Interim success standards may be used as thresholds for annual monitoring and to ensure the success of revegetation. Although quarterly monitoring will be conducted during the first year and annually thereafter, sustainability will be assessment once a year.

The plant species will be evaluated for relative success as determined by the cover, density, and species diversity success criteria. Remedial actions include removing non-native invasive species and reseeding based on annual assessment results. An evaluation of the surviving species will be repeated annually following initial seeding for five years or until the success criteria are achieved.

Annual monitoring will include random plot sampling within the revegetation area. The number of plots and sampling area size will vary to produce the 80% confidence level required under SMARA's Performance Standards for Revegetation. The following data will be collected within the sample plots:

- a. Survivorship: assessed by absolute counts
- b. Plant density
- c. Species diversity
- d. Cover per specified area

All data will be recorded on a standard form and copies will be submitted as an appendix to each Annual Report. Photo documentation will also be included for representative transects, in order to visually document annual vegetation changes and community development.

### 4.3 Reporting

The Operator will document the progress of any revegetation efforts and submit Annual Maintenance and Monitoring reports to Inyo County. Annual reports are due by December 31<sup>st</sup> of each year.

### 5 Conclusion

Upon termination of mining activities, any surfaces to be revegetated would be returned to their original land contours and revegetation surfaces would be scarified to create conditions optimal for seeding. Any revegetation areas will be covered with available surface materials in "islands" and hydro-seeded. Seeding would occur following the first rain of the fall season and before the winter rains.

An acceptable performance standard at the Cove Quarry Project site would measure success at 45% of the baseline cover, 45% of the baseline density, and 40% of the baseline species diversity, five years after reclamation. The baseline data showed that the average absolute shrub cover was approximately 17% GSC. Average shrub density measured at 24.75 100m<sup>-2</sup>; and an average shrub density measured 4.2 shrubs per 100 m<sup>2</sup> plot. A total of 27 shrub species were observed to occur within the site boundaries but only seven (7) within the sample areas. Accordingly, successful revegetation in the revegetation area would be achieved at approximately 17% cover by native shrub species, an approximate density of 11.15 100m<sup>-2</sup> and a species diversity of one shrub species 100m<sup>-2</sup>. No areas will be allowed to have more than 10 percent non-native invasive species ground cover.

Annual assessments of the reclamation area will be conducted by a revegetation specialist to determine the success of the revegetation effort until said criteria are achieved. Remedial action would occur per the recommendation of the revegetation specialist.

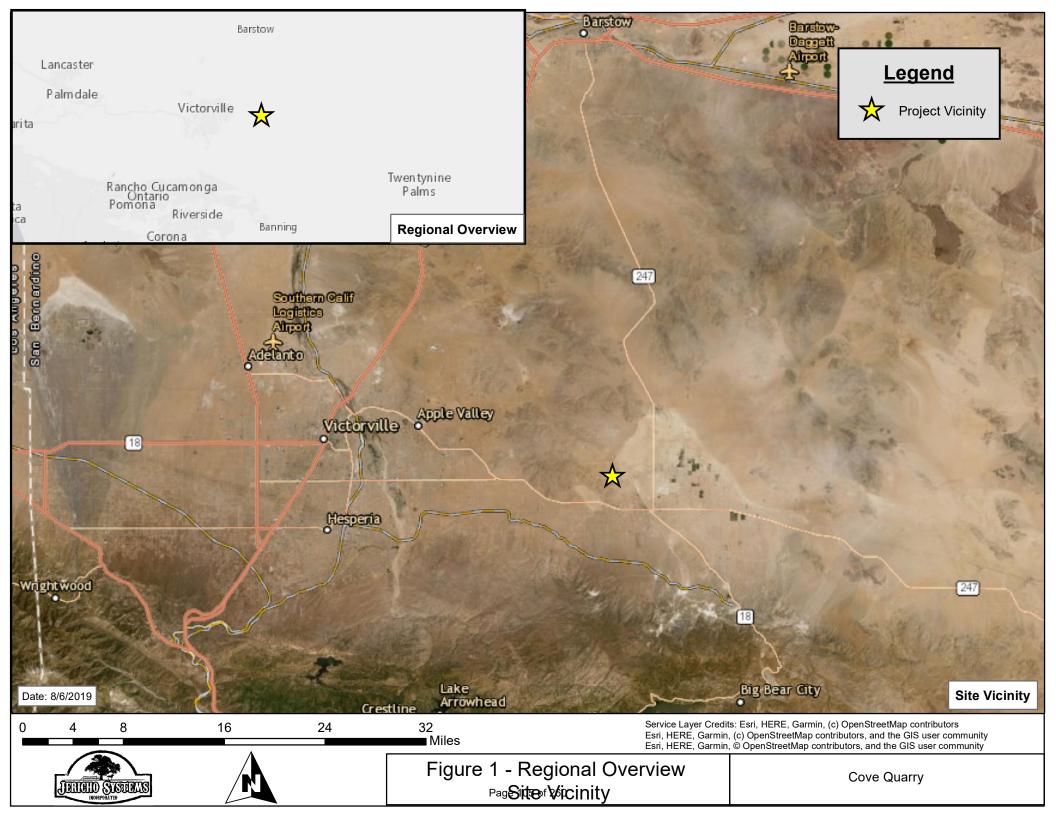
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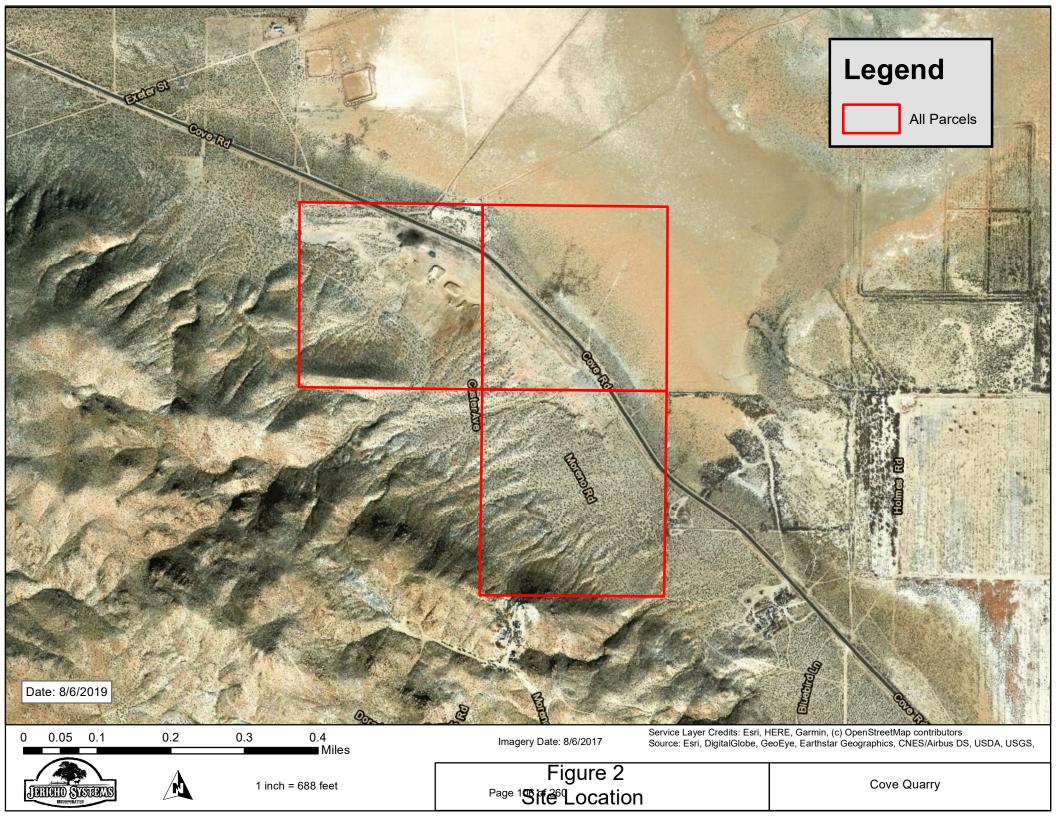
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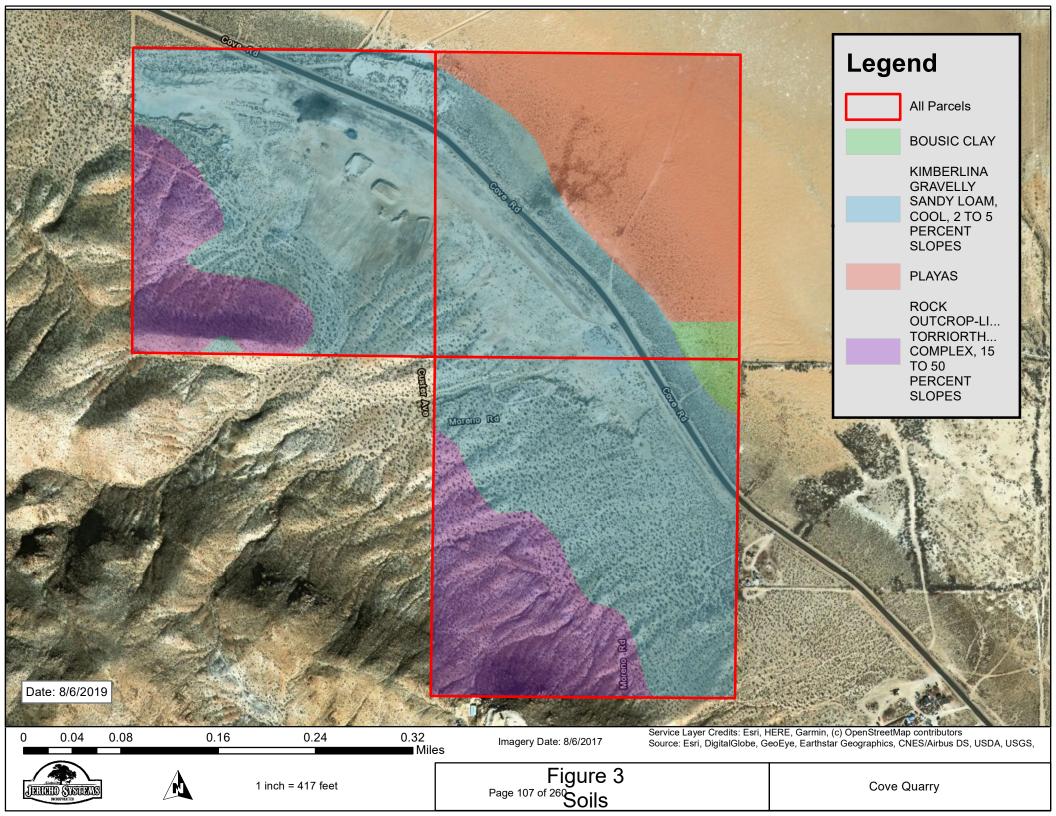
#### Jeanette Dorner

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**FIGURES** 

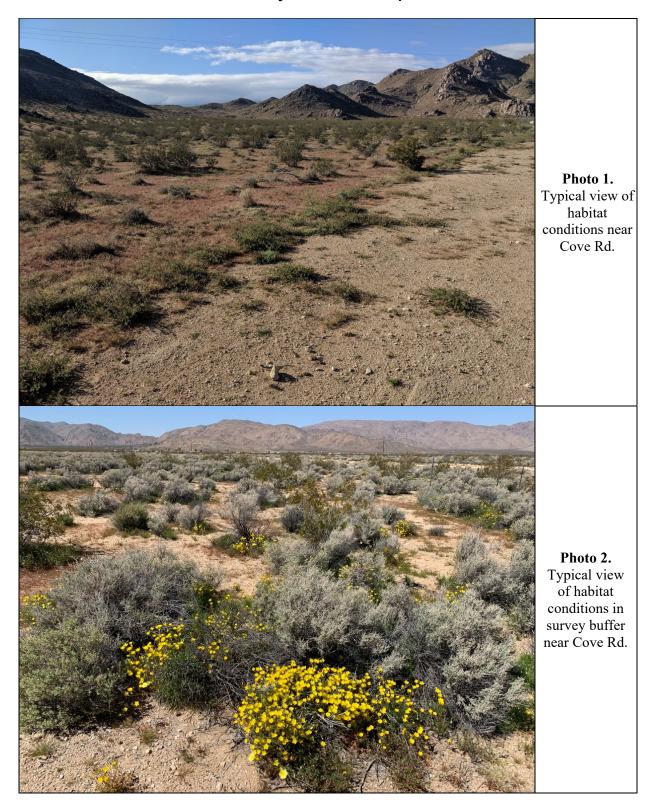


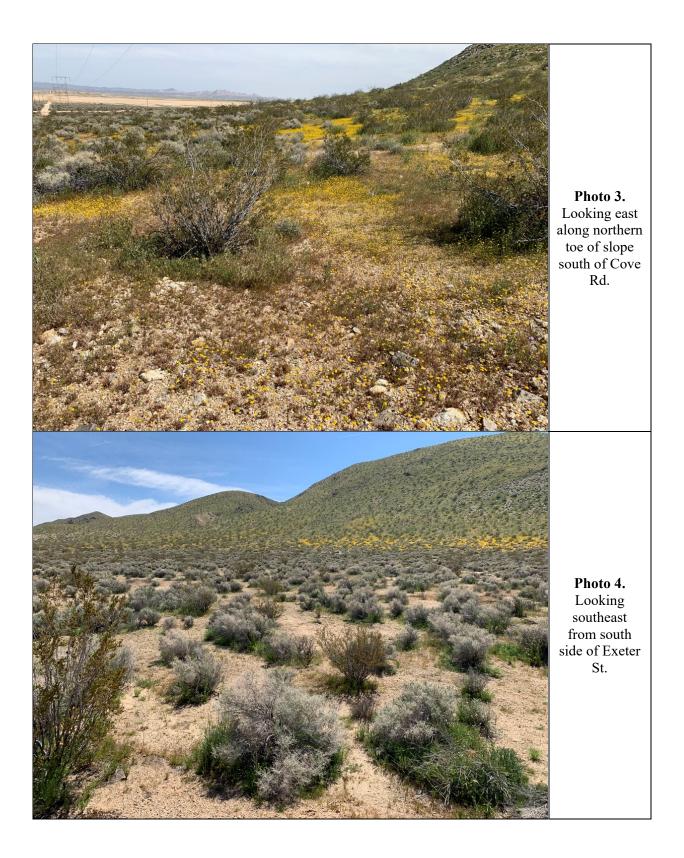


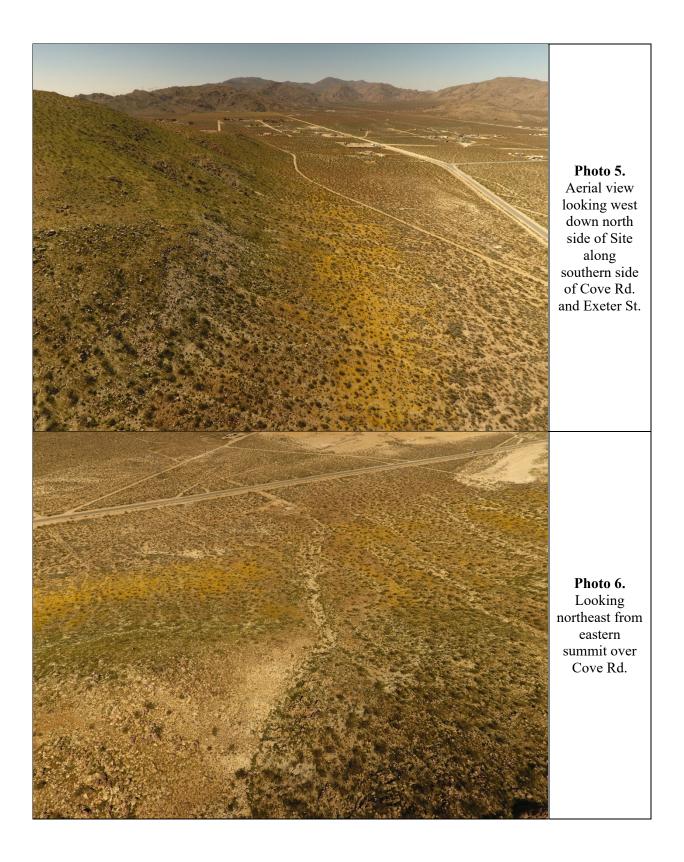


# SITE PHOTOGRAPHS

#### **Cove Quarry Site Photos - April 2019**







**Plant Species Observed** 

#### PLANT SPECIES OBSERVED COVE QUARRY

Latin Name	Common name	Growth form	Status	Family
Hesperoyucca whipplei	Chaparral yucca	Shrub	native	Agavaceae
Yucca brevifolia	Joshua tree	Tree	native	Agavaceae
Yucca schidigera	Mohave yucca	Tree	native	Agavaceae
Ambrosia acanthicarpa	Annual burrweed	Annual herb	native	Asteraceae
Ambrosia dumosa	Burro weed	Shrub	native	Asteraceae
Ambrosia salsola	Burrobrush	Shrub	native	Asteraceae
	Fremont			
Chaenactis fremontii	pincushion	Annual herb	native	Asteraceae
Chaenactis stevioides	Esteve pincushion	Annual herb	native	Asteraceae
	Interior			
Ericameria linearifolia	goldenbush	Shrub	native	Asteraceae
Ericameria nauseosa	Rubber rabbitbrush	Shrub	native	Asteraceae
Ericameria teretifolia	Green rabbitbrush	Shrub	native	Asteraceae
Gutierrezia		2111 010	11001110	11300100000
microcephala	Sticky snakeweed	Shrub (stem succulent)	native	Asteraceae
mier ocepitatu	Strong Shake Week	Sin de (Stein Saccarent)	invasive non-	Tisteraceae
Lactuca serriola	Prickly lettuce	Annual herb	native	Asteraceae
Lasthenia gracilis	Needle goldfields	Annual herb	native	Asteraceae
Layia glandulosa	White layia	Annual herb	native	Asteraceae
Layra granamosa	California	7 Hilliam Hero	Tittl' (C	1 istoraceae
Logfia filaginoides	cottonrose	Annual herb	native	Asteraceae
Malacothrix coulteri	Snake's head	Annual herb	native	Asteraceae
Malacothrix glabrata	Desert dandelion	Annual herb	native	Asteraceae
Senecio flaccidus	Shrubby ragwort	Shrub	native	Asteraceae
Stylocline micropoides	Desert nest straw	Annual herb	native	Asteraceae
Syntrichopappus Syntrichopappus	Lemmon's	7 Amilian nero	native	Asteraceae
lemmonii	syntrichopappus	Annual herb	native	Asteraceae
temmonti	Catclaw	7 Aimaar noro	native	Asteraceae
Tetradymia axillaris	horsebrush	Shrub	native	Asteraceae
Tetradymia spinosa	Spiny horsebrush	Shrub (stem succulent)	native	Asteraceae
Uropappus lindleyi	Silver puffs	Annual herb	native	Asteraceae
оторирриз инитеут	Mojave	7 Aimiddi Helo	native	7 isteraceae
Xylorhiza tortifolia	woodyaster	Perennial herb	native	Asteraceae
Amsinckia tessellata	Devil's lettuce	Annual herb	native	Boraginaceae
Cryptantha barbigera	Bearded cryptantha	Annual herb	native	Boraginaceae
Cryptantha Cryptantha	Western forget me	7 Amilian nero	native	Doraginaceae
circumscissa	not	Annual herb	native	Boraginaceae
cii cumscissa	Guadalupe island	7 Aimaar noro	native	Boragmaceae
Cryptantha maritima	cryptantha	Annual herb	native	Boraginaceae
Стуріаніна тапііта	Winged nut forget	7 Amilian nero	native	Doraginaceae
Cryptantha pterocarya	me not	Annual herb	native	Boraginaceae
S. ypianina pici ocai ya	Chuckwalla	1 Illiani ilvi	1140170	Doraginaceae
Pectocarya heterocarpa	pectocarya	Annual herb	native	Boraginaceae
Phacelia fremontii	Fremont's phacelia	Annual herb	native	Boraginaceae
Phacelia tanacetifolia	Tansy leafed	Annual herb	native	Boraginaceae
i nacena nanacenjona	ransy reared	/ Militari Helo	11411 1 C	Doraginaceae

Latin Name	Common name	Growth form	Status	Family
Butin 1 (unic	phacelia	Growth form	Status	
Plagiobothrys	Arizona popcorn			
arizonicus	flower	Annual herb	native	Boraginaceae
ar tzoriteus	Yellow tansy	7 Hillian Hero	Hative	Boraginaceae
Descurainia pinnata	mustard	Annual herb	native	Brassicaceae
2 esecutativa pintara	mastara	Timitaar Hero	invasive non-	Brassicaceae
Hirschfeldia incana	Mustard	Perennial herb	native	Brassicaceae
Sisymbrium altissimum	Tumble mustard	Annual herb	non-native	Brassicaceae
Thysanocarpus	Narrow leaved	Timitaa ii ii	non nauve	Brassreaceae
desertorum	lacepod	Annual herb	native	Brassicaceae
deserver um	Small flowered	Timitaar Hero	nati v C	Brassreaceae
Nemacladus sigmoideus	nemacladus	Annual herb	native	Campanulaceae
Atriplex canescens	Hoary saltbush	Shrub	native	Chenopodiaceae
Crassula connata	Sand pygmy weed	Annual herb	native	Crassulaceae
Juniperus californica	California juniper	Shrub	native	Cupressaceae
Ephedra nevadensis	Nevada ephedra	Shrub	native	Ephedraceae
Acmispon strigosus	Strigose lotus	Annual herb	native	Fabaceae
Lupinus bicolor	Lupine	Annual, Perennial herb	native	Fabaceae
Lupinus concinnus	Bajada lupine	Annual herb	native	Fabaceae
Empireus concentrus	Bujudu Iupine	Timitaar Hero	invasive non-	Tuouceuc
Erodium cicutarium	Coastal heron's bill	Annual herb	native	Geraniaceae
Salvia carduacea	Thistle sage	Annual herb	native	Lamiaceae
Salvia dorrii	Dorr's sage	Shrub	native	Lamiaceae
	Mexican bladder			
Scutellaria mexicana	sage	Shrub	native	Lamiaceae
	Veatch's blazing			
Mentzelia veatchiana	star	Annual herb	native	Loasaceae
	Pale yellow sun			
Camissoniopsis pallida	cup	Annual herb	native	Onagraceae
	Clavate fruited			8
Chylismia claviformis	primrose	Annual, Perennial herb	native	Onagraceae
Tetrapteron palmeri	Palmer's sun cup	Annual herb	native	Onagraceae
Castilleja chromosa	Desert paintbrush	Perennial herb	native	Orobanchaceae
Eschscholzia	•			
glyptosperma	Desert gold poppy	Annual herb	native	Papaveraceae
Eschscholzia	Coville's pygmy			•
minutiflora ssp. covillei	рорру	Annual herb	native	Papaveraceae
	Foxtail chess,			
Bromus madritensis	foxtail brome	Annual grass	non-native	Poaceae
Elymus elymoides	Squirrel tail grass	Perennial grass	native	Poaceae
Hilaria rigida	Big galleta	Perennial grass	native	Poaceae
Melica imperfecta	Coast range melic	Perennial grass	native	Poaceae
			invasive non-	
Schismus barbatus	Old han schismus	Annual grass	native	Poaceae
Stipa hymenoides	Indian rice grass	Perennial grass	native	Poaceae
	Broad flowered			
Gilia latiflora	gilia	Annual herb	native	Polemoniaceae

Latin Name	Common name	Growth form	Status	Family
Gilia stellata	Star gilia	Annual herb	native	Polemoniaceae
	California			
Eriogonum fasciculatum	buckwheat	Shrub	native	Polygonaceae
	Angle stermed			
Eriogonum maculatum	buckwheat	Annual herb	native	Polygonaceae
Delphinium parishii	Parish's larkspur	Perennial herb	native	Ranunculaceae
Thamnosma montana	Turpentine broom	Shrub	native	Rutaceae
	Anderson			
Lycium andersonii	thornbush	Shrub	native	Solanaceae
Cylindropuntia				
echinocarpa	Silver cholla	Shrub (stem succulent)	native	Cactaceae
Cylindropuntia	Branched pencil			
ramosissima	cholla	Shrub (stem succulent)	native	Cactaceae
Echinocereus				
engelmannii	Calico cactus	Shrub (stem succulent)	native	Cactaceae

**Methodology Literature** 

# APPENDIX 2 HISTORICAL/ ARCHAEOLOGICAL RESOURCES SURVEY REPORT, SEPTEMBER 2019

(NOT AVAILABLE FOR PUBLIC REVIEW)

## APPENDIX 3 PALEONTOLOGICAL RESOURCES ASSESSMENT REPORT, SEPTEMBER 2019 (NOT AVAILABLE FOR PUBLIC REVIEW)

## **EXHIBIT B**

**Conditions of Approval** 

#### **CONDITIONS OF APPROVAL**

#### **COVE BORROW PIT**

Mining Conditional Use Permit Action and Reclamation Plan 2020M-04 County of San Bernardino Public Works

#### GENERAL REQUIREMENTS

Conditions of Operation and Procedures

#### **LAND USE SERVICES DEPARTMENT – Planning Division (909) 387-8311**

- Project Description: Mining Conditional Use Permit (Mining CUP) and Reclamation Plan 2020M-04 for the Cove Borrow Pit; a 36 acre surface mining operation on County owned land. The project proposes to mine up to 1,000 yards of fill material per year.
- 2. <u>Project Location:</u> APN 0464-171-01; SE 1/4 SE 1/4 SEC 33 TP 5N R 1W 40 ACRES; Northwest side of Cove Road.
- 3. <u>Effective Dates:</u> The Mining CUP approval (Project Number PROJ-2020-00017) for Mining and Reclamation Plan 2020M-04 shall be effective for 100 years through December 31, 2120, for active mining and five (5) years following termination of mining to complete reclamation. The approval shall be considered exercised on the effective date. At the conclusion of all mining activities, the site will be reclaimed to a maintenance yard and vacant open space that supports wildlife habitat.
- 4. <u>Reclamation Plan Recordation:</u> Pursuant to Public Resources Code Section 2772.7, Planning will prepare a "Notice of Reclamation Plan Approval" on a form to be approved by the County Recorder's Office. The operator shall be responsible for review costs and recording fees.
- 5. <u>Revisions/Amendments:</u> Any alteration or expansion of these facilities or increase in the developed area of the site from that shown on the final approved Mine and Reclamation Plan will require submission of an additional application for review and approval. If mining reclamation procedures change from those outlined in the Cove Borrow Pit Mine Reclamation Plan prepared by Lilburn Corporation, dated May 2020, the applicant/operator shall file an amendment and secure approval before such changes can be made effective.
- 6. <u>Continuous Effect/Revocation:</u> All conditions of the Cove Borrow Pit Mining CUP and Reclamation Plan 2020M-04 are continuing conditions. Failure of the applicant/operator to comply with any or all of said conditions at any time could result in the notice of a public hearing before the Planning Commission to consider revoking the Mining CUP. If revocation is confirmed, the Planning Commission may provide for a reasonable period of time to amortize any lawful existing uses and require the commencement of reclamation in accordance with approved Reclamation Plan 2020M-04.
- 7. <u>Written Notification:</u> The Land Use Services Department shall be notified in writing, within 30 days, regarding any:

CEQA Mitigation Measures shown in italics

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A. Change in operating procedures, or inactive periods of operation for one (1) year or more.

- B. Changes of ownership, address, or telephone number during the life of the Mining CUP and Reclamation Plan.
- C. Changes to provisions in lease agreements or real property having any effect on the approved Mining and Reclamation Plan.
- 8. <u>Mining and Reclamation Plan:</u> The approved Cove Borrow Pit Mine Reclamation Plan 2020M-04 and these corresponding Conditions of Approval shall be kept at the site at all times during active operations and be presented to the inspector upon request.
- CA Mine ID: The applicant/operator shall obtain a California Mine Identification number from the California Department of Conservation pursuant to Public Resources Code, Section 2207 and pay all associated fees to the State.
- 10. <u>Interim Management Plan:</u> The applicant shall implement measures to stabilize and secure the site during periods of inactivity as per the approved Mining and Reclamation Plan. An Interim Management Plan (IMP) as required by SMARA, Public Resources Code Section 2770(h)(1) shall be submitted to Planning for review and approval within 90 days of the mining operation becoming idle.
- 11. Additional Permits: The applicant/operator shall ascertain and comply with requirements of all County, State, and Federal agencies as may be applicable to the Project. These include, but are not limited to the following: San Bernardino County Departments of Land Use Services, Public Health Environmental Health Services, and Department of Public Works; Mojave Desert Air Quality Management District; Lahontan Regional Water Quality Control Board; Mojave Desert Resource Conservation District, State Fire Marshal, Mojave Water Agency, Caltrans District 8, California Department of Fish and Wildlife Region 6, State Mining and Geology Board, California Department of Conservation Division of Mine Reclamation, California Occupational Safety and Health Administration, California Highway Patrol, Bureau of Land Management, and the Mine Safety and Health Administration.
- 12. <a href="Indemnification:">In compliance with San Bernardino County Code (SBCC) Section 81.01.070</a>, the applicant shall agree, to defend, indemnify, and hold harmless the County or its "indemnitees" (herein collectively the County's elected officials, appointed officials (including Planning Commissioners), Zoning Administrator, agents, officers, employees, volunteers, advisory agencies or committees, appeal boards or legislative body) from any claim, action, or proceeding against the County or its indemnitees to attack, set aside, void, or annul an approval of the County by an indemnitee concerning a map or permit or any other action relating to or arising out of County approval, including the acts, errors or omissions of any person and for any costs or expenses incurred by the indemnitees on account of any claim, except where such indemnification is prohibited by law. In the alternative, the applicant may agree to relinquish such approval.

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Any Condition of Approval imposed in compliance with the County Development Code or County General Plan shall include a requirement that the County acts reasonably to promptly notify the applicant of any claim, action, or proceeding and that the County cooperates fully in the defense. The applicant shall reimburse the County and its indemnitees for all expenses resulting from such actions, including any court costs and attorney fees, which the County or its indemnitees may be required by a court to pay as a result of such action. The County may, at its sole discretion, participate at its own expense in the defense of any such action, but such participation shall not relieve the applicant of their obligations under this condition to reimburse the County or its indemnitees for all such expenses.

This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The applicant's indemnification obligation applies to the indemnitees' "passive" negligence but does not apply to the indemnitees' "sole" or "active" negligence or "willful misconduct" within the meaning of Civil Code Section 2782.

13. <u>Financial Assurances:</u> The applicant/operator shall maintain an acceptable form of Financial Assurance for Mine Reclamation Plan 2020M-04 and for the Mining CUP. The Financial Assurance shall identify the County of San Bernardino and the California Department of Conservation as the beneficiaries.

The Financial Assurance shall be calculated based on a cost estimate submitted by the applicant/operator and approved by the County and the California Department of Conservation, Division of Mine Reclamation for the approved reclamation procedures. Within 30 days following the mine site inspection, a Financial Assurance Cost Estimate shall be provided to the Land Use Services Department. The assurance amount shall be reviewed and, if necessary, adjusted to account for new lands disturbed by surface mining operations, inflation and reclamation of lands accomplished in accordance with the approved Mine Reclamation Plan 2020M-04.

The Financial Assurance is not established to replace the applicant's/operator's responsibility for reclamation, but to assure adequate funding to complete reclamation per the Mine Reclamation Plan 2020M-04 and Conditions of Approval. Should the applicant/operator fail to perform or operate within all of the requirements of the approved Mine Reclamation Plan, the County or Department of Conservation will follow the procedures outlined in Sections 2773.1 and 2774.1 of SMARA regarding the encashment of the assurance and applicable administrative penalties, to bring the applicant/operator into compliance. The requirements for the assurance will terminate when reclamation of the site has been completed in compliance with the approved Mine Reclamation Plan and accepted by the County and the California Department of Conservation, Division of Mine Reclamation pursuant to California Code of Regulations (CCR), Section 3805.5.

14. <u>SMARA and State Regulations:</u> The provisions of the California Surface Mining and Reclamation Act of 1975 ("SMARA", Public Resources Code Section 2710 et seq.), Public Resources Code Section 2207, and the regulations implementing SMARA ("State Regulations", California Code of Regulations Section 3500 et seq.) are made a part of the

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CUP. In the event that the State amends SMARA to the extent it adds to or conflicts with the Conditions of Approval, State law shall prevail.

- 15. Annual Reporting and Inspection: The applicant/operator shall provide a Mining Operation Annual Report to the California Department of Conservation and to Land Use Services Department on a date established by the California Department of Conservation, using forms furnished by the State Mining and Geology Board. The County is required to conduct an inspection of the surface mining operation by a qualified person not less than once each calendar year to determine if the operation is in compliance with the approved Conditions of Approval, Reclamation Plan, and SMARA statutes and regulations. The County is required to notify the California Department of Conservation upon completion of the inspection that the inspection has been conducted and provide a statement regarding the status of compliance of the operation within 90 days after completion of the inspection. The operator of the mining operation is responsible for filing an application with the County to request an inspection and shall be responsible for paying the County's costs in conducting the mine site inspection.
- 16. <u>"Applicant/Operator":</u> Requirements extend to the property owner and any person, lessee, tenant or sub-tenant, operator, individual, firm, association, corporation, organization, Limited Liability Company or partnership, or any city, county, district, or the state or any department or agency thereof for any disturbance or improvements to the mined lands. The applicant/operator may include an agent or other interested party, and any heir or successor in interest in the project land use by sale or by lease of all or of a portion of the mine site including land use within any or all of the mine structures or areas on the mine site.
- 17. <u>Project Account:</u> As determined necessary on a case-by-case basis, the applicant/operator shall deposit funds with the County necessary to compensate staff time and expenses for review of compliance monitoring reports and site inspections. The project account number for this Mining CUP is PROJ-2020-00017. This is an actual cost project with a deposit account to which hourly charges are assessed by various county agency staff, including but not limited to: Land Use Servicesand County Counsel.

Upon notice, the applicant shall deposit additional funds to maintain or return the account to a positive balance. The applicant/operator is responsible for all expenses charged to this account.

#### **Definitions**

- 18. <u>Minerals:</u> Include any naturally occurring chemical element or compound, or groups of elements and compounds, formed from organic and inorganic processes. Clay, sand, gravel, rock, decomposed granite, salts, alumina, silica, alkali, topsoil or growth medium, organic humus and gems represent the aggregate of different minerals.
- 19. <u>Produced Minerals</u>: Produced Minerals as defined in CCR §3501 includes all minerals sold, given or otherwise moved off the site of the operation, as defined in the approved reclamation

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plan. Recycled products (e.g. broken concrete, bricks, asphaltic concrete, etc.) or stockpiles of mineral products that remain on the site are not produced minerals for purposes of CCR §3695(b).

- 20. <u>Construction and Demolition (C&D):</u> Materials left onsite shall be deemed as waste material produced in the process of site clearing activities, construction, renovation, or demolition of structures of all types to include roads and bridges. Waste materials include, but is not limited to concrete, asphalt, wood, metals, gypsum wallboard and brick. The Financial Assurance Cost Estimate shall include costs to remove C&D materials to an approved offsite facility that is permitted to receive such materials.
- 21. <u>Exploration or Prospecting:</u> Includes the activities in search for minerals by geological, geophysical, geochemical or other techniques, including, but not limited to, sampling, assaying, drilling, or any surface or underground works needed to determine the type, extent, or quantity of minerals present.
- 22. <u>Surface Mining Operations:</u> Surface mining operations include all, or any part of, the process involved in the mining of minerals on mined lands, borrow pitting, segregation and stockpiling of mined materials (and recovery of the same).
- 23. Ownership: The person(s) involved in the ownership of the property include all persons having interest in the ownership of the surface and subsurface property, including mineral rights. If the applicant/operator is not the recorded owner(s) of the property must submit a signed statement by the property and mineral rights owner(s) authorizing the Applicant to act on their behalf.
- 24. Operator: The Operator includes the Applicant and any person who is engaged in surface mining operations, and others contracted to conduct operations on his or her behalf, except a person who is engaged in surface mining operations as an employee with wages as his or her sole involvement and compensation.
- 25. <u>Operations:</u> Surface mining operations include all, or any part of, the process involved in the mining of minerals on mined lands, borrow pitting, segregation and stockpiling of mined materials (and recovery of same).
- 26. "Mined Lands": Include the surface, subsurface, and groundwater of an area in which surface mining operations will be, are being, or have been conducted, including private ways and roads appurtenant to any such area, land excavations, workings, mining waste, and areas in which structures, facilities, equipment, machines, tools, or other materials or property which result from, or are used in, surface mining operations are located.
- 27. <u>Aggregate Removal:</u> The applicant shall not sell or otherwise move off the mine site any sand, gravel, or other produced minerals to a public agency unless the operator certifies, under penalty of perjury, that the mining operation is identified in the AB 3098 List published pursuant to PRC Section 2717(b).

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#### **Ongoing Requirements**

28. <u>Human Remains/Funeral Objects:</u> If human remains or funeral objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Corner shall be contacted pursuant to State Health and Safety Code Section 7050.5 and that code enforced for the duration of the project.

If the remains are thought to be Native American, the coroner will notify the NAHC, which will then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains will also contact Gary Jones, Caltrans District 8 Native American Coordinator at (909) 383-7505 so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC Section 5097.98 are to be followed as applicable.

29. <u>Native American Cultural Resources:</u> In the event that Native American cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period.

#### **COUNTY FIRE DEPARTMENT – Community Safety Division (760) 995-8190**

30. <u>Jurisdiction</u>: The above referenced project is under the jurisdiction of the San Bernardino County Fire Department herein ("Fire Department"). Prior to any construction occurring on any parcel, the developer shall contact the Fire Department for verification of current fire protection requirements. All new construction shall comply with the current Uniform Fire Code requirements and all applicable statutes, codes, ordinances and standards of the Fire Department.

### PRIOR TO NEW LAND DISTURBANCE AND THROUGHOUT THE PROJECT THE FOLLOWING SHALL BE COMPLETED

#### **LAND USE SERVICES DEPARTMENT – Planning Division (909) 387-8311**

- 31. <u>Golden Eagle BIO-1:</u> A pre-activity survey shall be performed to verify the continued absence of Golden Eagles in the area of operations whenever operations extend into a previously undisturbed area.
- 32. <u>Golden Eagle BIO-2:</u> If Golden Eagles are found during any surveys, the County shall avoid material removal or stockpiling until cleared by a qualified biologist to resume activity.
- 33. <u>Destert Tortoise and Burrowing Owl BIO-3:</u> A qualified biologist shall provide an Environmental Awareness Presentation to operations workers on an as needed basis.
- 34. <u>Desert Tortoise and Burrowing Owl BIO-4:</u> A qualified biologist shall conduct a pre-sweep survey of any areas slated for new land disturbance.

CEQA Mitigation Measures shown in italics

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35. <u>Desert Tortoise and Burrowing Owl - BIO-5:</u> A biological monitor shall be present during initial land disturbing activities.

- 36. Nesting Birds BIO-6: Preconstruction Nesting Bird Surveys shall take place prior to new land disturbing activities that fall within the bird nesting season (April 15 August 31). The nesting bird surveys would serve to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the biologist has determined the young birds have successfully fledged and the nest is inactive.
- 37. <u>Historical Resources CR-1:</u> If historical/archaeological resources are encountered during ground-disturbing activities, work in the immediate area shall cease and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service [NPS] 1983) shall be contacted immediately to evaluate the find(s). If the discovery proves to be significant under CEQA, additional work such as data recovery excavation may be warranted and will be reported to the County.
- 38. <u>Human Remains CR-2:</u> Should human remains and/or cremations be encountered during any earthmoving activities, all work shall stop immediately in the area in which the find(s) are present (suggested 100-ft radius area around the remains and project personnel will be excluded from the area and no photographs will be permitted), and the County of San Bernardino Coroner will be notified. The County of San Bernardino and the Project Proponent shall also be called and informed of the discovery. The Coroner will determine if the bones are historic/archaeological or a modern legal case. The Coroner will immediately contact the Native American Heritage Commission (NAHC) in the event that remains are determined to be human and of Native American origin, in accordance with California Public Resources Code Section 5097.98.

All discovered human remains shall be treated with respect and dignity. California state law (California Health & Safety Code 7050.5) and federal law and regulations ([Archaeological Resources Protection Act (ARPA) 16 USC 470 & 43 CFR 7], [Native American Graves Protection & Repatriation Act (NAGPRA) 25 USC 3001 & 43 CFR 10] and [Public Lands, Interior 43 CFR 8365.1-7]) require a defined protocol if human remains are discovered in the State of California regardless if the remains are modern or archaeological.

39. <u>Paleontological Resources - GS-1:</u> In order to prevent inadvertent impacts on paleontological resources, all ground disturbances shall be limited to the southwestern portion of the project area as shown in the limits of mining activities. If the project plans change an updated paleontological resources management and monitoring plan, including some level of paleontological monitoring and/or periodic field inspection by qualified personnel, will need to

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be designed and implemented in accordance with the extent of impacts anticipated in this potentially fossiliferous formation.

40. <u>Tribal Monitoring - TCR-1:</u> Appropriate consulting Tribe(s) shall be contacted, as detailed in CR-1, of any pre-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input within 48 hours with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2018), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with consulting Tribe(s), and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents consulting Tribe(s) for the remainder of the project, should Tribe(s) elect to place a monitor on-site at the Tribe's cost.

As necessary, and in accordance with Project-Specific consultations conducted with the NAHC and various Tribal entities in association with AB52, SB18, and/or any other legal guidelines relating to Native American consultations, the specific language noted in CR-1 and CR-2 may change to reflect Project-Specific needs and requirements.

- 41. <u>Discovery of Human Remains -TCR-2:</u> If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to CR-2 and State Health and Safety Code §7050.5 and that code shall be enforced for the duration of the project.
- 42. Treatment of Human Remains TCR-3: Only the NAHC Designated MLD Tribal representative shall make all future decisions regarding the treatment of human remains of Native American origin within the response times outlined below. The MLD shall determine the disposition and treatment of Native American human remains and any associated grave goods following Native American Graves Protection and Repatriation Act (NAGPRA) protocols, and what constitutes "appropriate dignity" as that term is used in the applicable statutes and in the Tribe's customs and traditions. The MLD or his/her designee shall complete an inspection and provide written recommendations to the DPW and the landowner (if different than the DPW) within forty-eight (48) hours of being granted access to the site. If the descendant does not make recommendations within 48 hours, the landowner shall re-inter the remains in a secure area of the property where there will be no further disturbance. Should the landowner not accept the descendant's recommendations, either the owner or the MLD may request mediation by NAHC. According to the California Health and Safety Code, six (6) or more human burials at one (1) location constitute a cemetery (Section 8100), and willful disturbance of human remains in a cemetery is a felony (Section 7052).
- 43. <u>Tribal Records TCR-4:</u> Any and all archaeological/cultural documents as related to documented tribal cultural resources created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be disseminated to appropriate consulting Tribe(s) in the form of an un-redacted report (containing DPR forms). The Lead Agency and/or

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applicant shall, in good faith, consult with the appropriate Tribe(s) until construction completion of the project and completion of any measures imposed to protect resources.

- 44. <u>Transplanting:</u> Transplanted or propagated plants will be maintained for a minimum of three years, or until a qualified biologist(s) determine that the plants have been successfully established (e.g., plants are vigorous, flower, and produce seed). Successful re-establishment of the plants will be based on the replanted areas achieving density and diversity standards in accordance with the approved Revegetation Plan.
- 45. <u>Dust Control Plan:</u> The applicant/operator is responsible for meeting all air quality requirements, including, securing an approved Dust Control Plan pursuant to SBCC Chapter 88.02 and Section 88.02.040 and approved by the Mojave Desert Air Quality Management District (MDAQMD). Once approved, the Plan shall be submitted to and kept on file with the Land Use Services Department. The Plan shall, at minimum, include the following aspects:
  - a. Truck traffic will be limited to 20 MPH on all site roads;
  - b. All clearing, grading, earth moving, and excavation activities will cease during period of winds greater than 25 miles per hour (averaged over one hour), or when dust plumes of 20 percent or greater opacity impact public roads, occupied structures, or neighboring property, and in conformance with Mojave Desert Air Quality Management District (MDAQMD) regulations;
  - c. All roads, driveways, and mining areas not covered with gravel or treated with protective soil amendments, shall be kept wetted while being used; and,
  - d. The applicant/operator shall ensure that any portion of the site to be disturbed shall be moisture conditioned prior to the onset of earth-moving activities.
  - e. The Dust Control Plan should identify an individual responsible for dust mitigation and this individual's name and contact telephone number shall be clearly posted on a project boundary sign visible to the public for feedback purposes.
- 46. <u>Archaeological Resources:</u> The developer/property owner shall submit a letter to the County Land Use Services Department Planning Division (County) agreeing to adhere to the following requirements:
  - In the event archaeological resources are uncovered during earthmoving activities, all work in that area shall cease immediately and the County shall be notified. A qualified archeologist shall be retained to access the findings, and if necessary provide appropriate disposition of the resources. Earthmoving shall be diverted temporarily around the deposits until they have been evaluated, recorded, excavated, and/or recovered as necessary. Earthmoving shall be allowed to proceed on the site when the archaeologist, in consultation with the appropriate Native American Tribe(s), the County, and the qualified archaeologist determines the resources are recovered to their satisfaction.

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#### SAN BERNARDINO COUNTY MUSEUM – Earth Sciences Division (909) 798-8616

47. <u>Paleontological Resources:</u> The developer/property owner shall submit a letter to County Land Use Services Department- Planning Division (County) agreeing to adhere to the following requirements:

• In the event paleontological resources are uncovered during earthmoving activities, all work in that area shall cease immediately and the County shall be notified. A qualified paleontologist shall be retained to access the findings, and if necessary provide appropriate disposition of the resources. Earthmoving shall be diverted temporarily around the deposits until they have been evaluated, recorded, excavated, and/or recovered as necessary. In consultation with the Project proponent, the County, and a qualified paleontologist shall develop a plan of mitigation which shall include salvage excavation and removal of the find, removal of sediment from around the specimen (in the laboratory), research to identify and categorize the find, curation of the find in a local qualified repository, and preparation of a report summarizing the find.

#### DEPARTMENT OF PUBLIC WORKS - Surveyor (909) 387-8149

- 48. <u>Survey Monumentation:</u> If any activity on this project will disturb <u>any</u> land survey monumentation, including but not limited to vertical control points (benchmarks), said monumentation shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer authorized to practice land surveying <u>prior</u> to commencement of any activity with the potential to disturb said monumentation, and a corner record or record of survey of the references shall be filed with the County Surveyor (Section 8771(b) Business and Professions Code).
- 49. Record of Survey: Pursuant to Sections 8762(b) and/or 8773 of the Business and Professions Code, a Record of Survey or Corner Record shall be filed under any of the following circumstances:
  - a. Monuments set to mark property lines or corners;
  - b. Performance of a field survey to establish property boundary lines for the purposes of construction staking, establishing setback lines, writing legal descriptions, or for boundary establishment/mapping of the subject parcel;
  - c. Any other applicable circumstances pursuant to the Business and Professions Code that would necessitate filing of a Record of Survey.

#### ONGOING MINING OPERATIONAL CONDITIONS

#### LAND USE SERVICES – Planning Division (909) 387-8311

#### **General Operations**

CEQA Mitigation Measures shown in italics

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50. <u>Best Management Practices (BMP's):</u> The operator shall implement the BMP's procedures. BMP provisions shall include the following:

- Good House Keeping Dust minimization, waste spills, discharges.
- Preventive Maintenance Minimize spills, and onsite leaks, prompt maintenance.
- Spill and Leak Preventive Response In place spill procedures and controls.
- Material Handling and Waste Mgmt. Waste covering, storm water diversion practices, waste clean ups.
- Implement Erosion and Sediment Controls Sediment and Erosion Stabilization.
- Employee Training Program- BMP Training.
- Exposure Minimization Storm resistant shelters to prevent contact of storm water with mining materials.
- Storm Water Containment & Discharge Reduction BMP's that divert, reuse, contain or reduce volume of storm water runoff.
- 51. Operations: Extraction and processing operations shall proceed in accordance with the Cove Borrow Pit Mining CUP and Reclamation Plan 2020M-04 Conditions of Approval. Soil extraction, stockpiling and transport will adhere to the mining operations outlined in the Mine Reclamation Plan. No crushing or sorting has been authorized under this plan.
- 52. <u>Noise Level:</u> Should an acoustical study be required, and the results of such study indicate operations do not comply with the County Standards under SBCC Section 83.01.080; the Planning Director may require modification of such operations. Mitigation measures may include:
  - a. Restriction of activities to certain times of the day.
  - b. Restriction on the location of activities to certain times of the day.
  - c. Mitigation agreed to by aggrieved party(ies).
- 53. <u>Blasting:</u> Blasting is not a part of this permit approval. No blasting shall occur, and no explosives shall be stored onsite.
- 54. Ore Processing: The borrow pit material will be loaded directly into trucks for transport to the construction sites.
- 55. <u>Designated Haul Roads:</u> Haul roads shall be limited to those designated on the Mine Plan.

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56. <u>Slopes:</u> In accordance with the Mine Reclamation Plan 2019M-01 prepared by Lilburn Corporation dated May 2020, the operator shall insure the following mitigation for slope stability and benching to minimize failure.

- Visual monitoring during excavation activities during mining should be included in the operational plan.
- Overall final cut slopes shall be no steeper than the design inclination up to the maximum proposed height.
- Slopes should be protected with berms and/or levees as necessary to prevent slope erosion in the areas where natural slopes drain onto the reclaimed slopes.
- Final reclaimed fill slopes composed of overburden shall be no steeper than 3(h):1(v) to the maximum proposed heights.
- 57. <u>Test Plots:</u> The operator shall establish a minimum of two (2) test plots representative of the slope aspect and floor elevation that will result from the borrow area.
  - Test plots will include surface ripping/no seeding of a control plot, and surface ripping and seeding per the recommended seed mixture.
  - Additional tests will be conducted if the initial tests and any active revegetation are not successful and may include various types and amounts of seeds and different surface/soil preparation.
  - Successful revegetation will be achieved when a self-sustaining native plant cover is established in the disturbed area of the project. The revegetated site must resemble and blend into the natural surrounding environment.
  - The operator will document the progress of the revegetation effort and submit Annual Maintenance and Monitoring reports to the County of San Bernardino.
- 58. <u>Sign Maintenance:</u> The applicant/operator shall regularly review the adequacy of directional signs, safety signs, and/or other onsite signs. Care should be taken to ensure that signs do not become blocked by vegetation or become illegible from dirt or deterioration. As new phases are developed, additional signs may be needed. In evaluating the adequacy of signs, they should be considered from the viewpoint of a first-time visitor on the property, such as a vendor or a contractor.
- 59. Onsite Lighting: The area of illumination from any onsite lighting shall comply with SBCC Section 83.07.040 Glare and Outdoor Lighting. Light pollution shall be minimized and confined within the site boundaries to limit impacts to surrounding properties. The glare from any

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luminous source, including onsite lighting shall not exceed one-half (0.5) foot-candle at property line. Onsite lighting shall be fully shielded, diffused, or directed in a manner to avoid glare directed at adjacent properties, roadways or any light spill into any wildland areas surrounding the site that might affect nocturnal animals. No light shall project onto adjacent roadways in a manner that interferes with on-coming traffic. All lighting shall be limited to that necessary for maintenance activities, security and safety purposes. All signs proposed by this project shall only be lit by steady, stationary, shielded light directed at the sign.

60. <u>Site Maintenance:</u> The applicant/operator shall maintain the premises in a neat and orderly manner at all times. All refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that visual or other impacts and environmental public health nuisances are minimized. All refuse <u>not</u> containing garbage shall be removed from the premises at least <u>one</u> time per week, or as often as necessary to minimize public health nuisances. Refuse containing garbage shall be removed from the premises at least <u>two</u> times per week, or as often as necessary to minimize public health nuisances, by a permitted hauler to an approved solid waste facility. For information, call DEHS/LEA at (800) 442-2283.

#### **Environmental Protection**

- 61. <u>Chemical Spills/Leakage:</u> All chemical spills or leakage of petroleum products during mining or reclamation activities shall be remediated in compliance with applicable state and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste shall be collected and disposed of at an appropriately licensed disposal or treatment facility.
- 62. <u>Equipment Emission Reduction and Idling:</u> The mine operator shall maintain and operate construction equipment so as to minimize exhaust emissions. During mining, trucks and vehicles in loading and unloading queues shall have their engines turned off when not in use, to reduce vehicle emissions.
- 63. <u>Vehicle Maintenance:</u> The mine operator shall ensure that all equipment shall be properly tuned and maintained in accordance with manufacturer's specifications. Vehicle maintenance, servicing, and fueling will be accomplished onsite by a mobile maintenance truck and Best Management Practices shall be implemented. All used fluids will be removed from the equipment and from the site following standard regulations. No used fluids will be stored onsite.
- 64. <u>Fuel Sources:</u> The mine operator shall ensure onsite mobile equipment, including lighting, is powered by alternative fuel sources (i.e., methanol, natural gas, propane, or butane) as feasible. Commercial power shall be used when feasible.
- 65. Exhaust Control Measures: The operator shall comply with all existing and future EPA (Clean Air Non-road Diesel Rule-May 2004), CARB and MDAQMD regulations related to diesel-fueled trucks and equipment, which may include among others: (1) meeting more stringent emission standards; (2) retrofitting existing engines with particulate traps; (3) use of low sulfur fuel; and (4) use of alternative fuels or equipment.

COVE BORROW PIT
Conditional Use Permit and Mining/Reclamation Plan

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Operation of all off-road and on-road diesel vehicles/equipment shall comply with the County Diesel Exhaust Control Measures (SBCC, Section 83.01.040 (c)) including but not limited to:

Effective Date: November 30, 2020

Expiration Date: November 30, 2023

- a. Equipment/vehicles shall not be left idling for period in excess of five minutes;
- b. Engines shall be maintained in good working order to reduce emissions;
- c. Onsite electrical power connections shall be made available where feasible;
- d. Ultra low-sulfur diesel fuel shall be utilized;
- e. Electric and gasoline powered equipment shall substitute for diesel powered equipment where feasible:
- f. Signs shall be posted requiring all vehicle drivers and equipment operators to turn off engines when not in use;
- g. In addition, all on-road diesel trucks shall not idle more than five minutes per truck trip or per day on the Project site.
- 66. <u>Trackout and Spills:</u> The mine operator shall take actions sufficient to prevent project-related trackout onto paved surfaces and cover loaded haul vehicles while operating on publicly maintained paved surfaces. The mine operator shall clean-up project-related trackout or spills on publicly maintained paved surfaces within 24 hours.

#### Reclamation

- 67. Reclamation Time Schedule: Reclamation shall be initiated at the earliest possible time on those portions of the disturbed lands that will not be subject to further disturbance by the surface mining operation.
- 68. <u>Barriers/Signage:</u> Safety barriers and signage per MSHA requirements shall be maintained around the mined slopes.
- 69. <u>Stockpiling:</u> Onsite materials shall not be stockpiled adjacent to an active drainage unless adequate protective measures are implemented. Adequate measures shall consider the most adverse conditions the stockpile will likely experience. Open storage piles susceptible to wind erosion shall be watered daily/or as needed, or shall be installed with temporary coverings to control PM<sub>10</sub> emissions, and be limited in height to 35 feet.
- 70. <u>Growth Medium Stockpiles:</u> The operator shall stockpile all topsoil and vegetation away from areas to be disturbed. Stockpiled topsoil shall be identified with clearly labeled signs stating "Topsoil Do Not Disturb" and stored separately from silt and overburden material stockpiles

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and protected to preserve as much of the organic material and seeds as practicable. Locations for these topsoil stockpiles are to be identified in the Mining Plan.

Stockpiles shall be maintained with temporary erosion control methods, and shall be stabilized through establishment of temporary vegetative cover or other acceptable means of surface treatment for prolonged storage periods. At the time of reclamation, areas being reclaimed shall have the stockpiled growth medium and vegetation spread over them. Revegetation shall be supplemented by broadcast seeding with native and locally adapted seed and planting of established seedlings and/or shrubs in accordance to the approved Reclamation Plan.

- 71. <u>Product Stockpiles:</u> Product stockpile heights shall be maintained during the life of the project. Should the project go into idle status, the product stockpiles shall be stabilized or removed as a condition of an Interim Management Plan (IMP) as required by SMARA, Section 2770(h)(1).
- 72. <u>Graded Surfaces Stabilized:</u> The mine operator shall stabilize graded site surfaces upon completion of earth moving activity when subsequent earth moving activity is delayed or expected to be delayed more than 30 days, except when such a delay is due to precipitation that dampens the disturbed surface sufficiently to eliminate visible fugitive dust emissions.
- 73. <u>Slope Monitoring:</u> Slope monitoring shall be implemented to assure that unnecessary hazards are not created with the active or final reclaimed slopes. A qualified independent California Certified Professional Civil Engineer and/or Engineering Geologist shall complete a stability assessment of existing and new quarry development areas when deemed necessary by the County inspector. The analysis shall identify and discuss significant structural features or indications of potential instability encountered.
- 74. Seed Types and Amounts: A unique seed mix has been prescribed for the project site to promote a plant community similar to that found onsite prior to disturbance. The seed mix will serve as a guideline for the revegetation plant community. Seed types and amounts will conform to the site's Revegetation Plan Update prepared by Jericho Systems, Inc., dated July 2019. The seed mix will be applied based on the identified seeding methods and rates as shown in the Revegetation Plan.
- 75. <u>Revegetation Annual Monitoring:</u> The project biologist will document the progress of the revegetation effort at the Cove Borrow Pit site and submit Annual Maintenance and Monitoring reports to Land Use Services upon request or as necessary.
- 76. Revegetation Attainment: Revegetation will be deemed successful when all success criteria have been achieved on an average property-wide basis. If these criteria have not been achieved, maintenance seeding and monitoring will continue annually until success criteria has been met. An acceptable standard at the Project site would measure success at 45% of the baseline cover, 45% of the baseline density, and 40% of the baseline species diversity within the shrub canopy, five years after reclamation.

COVE BORROW PIT Effective Date: November 30, 2020 Conditional Use Permit and Mining/Reclamation Plan Expiration Date: November 30, 2023

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77. <u>Financial Assurances - Re-vegetation:</u> Re-vegetation in arid areas is tenuous at best and, therefore, the applicant shall provide in the Financial Assurance Cost Estimate, the costs to monitor and report on revegetation, incidental disturbance and erosion control for a time period of five (5) years following the termination date of operation.

#### PUBLIC HEALTH - Environmental Health Services (DEHS) (800) 442-2283

- 78. <u>Noise Operations:</u> Noise levels shall be maintained at or below County Standards, SBCC Section 83.01.080.
- 79. <u>Refuse:</u> Refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that visual, or other impacts, and environmental public health nuisances are minimized and complies with the SBCC, Section 33.0803 et seq. For information, please call DEHS/Local Enforcement Agency (LEA) at (800) 442-2283.
- 80. <u>Solid Waste Removal:</u> No landfilling of wastes shall occur onsite. In the event that refuse is stored onsite, all refuse not containing garbage shall be removed from the premises at least 1 time, and refuse containing garbage shall be removed from the premises at least 2 times per week, to an approved solid waste facility in conformance with SBCC Section 33.0803 et seq. For information, please call DEHS/LEA at (800) 442-2283.
- 81. <a href="Portable Toilets">Portable Toilets</a>: An adequate number of portable toilets shall be provided and maintained so as not to create a public nuisance and shall be maintained by a DEHS permitted pumper. Portable unit shall provide hand washing capacity. Units shall be serviced at least weekly while in use. Submit a copy of the service contract from an approved pumper to DEHS. For information, call DEHS/Wastewater Section at (800) 442-2283.
- 82. <u>Ponding Water:</u> Applicant/Operator shall manage ponding water to avoid vector breeding, e.g., mosquitoes, midges, and gnats.

## PRIOR TO FINAL CLOSURE The Following Conditions Shall Be Met:

#### **LAND USE SERVICES – Planning Division (909) 387-8311**

- 83. <u>Equipment:</u> At the time of termination of the operation for any reason, all equipment, structures and refuse associated with the operation shall be removed from the site, all hazards mitigated, and reclamation initiated as per the approved Mine Reclamation Plan 2018M-01.
- 84. Wells: Upon final reclamation, evidence shall be provided that all wells not retained for postoperation uses, exploration holes, or test holes, as defined by DWR Bulletin 74-81 as revised in 1988, or the latest revision, are destroyed in accordance with DEHS regulations and in such a manner that will no longer be a hazard to the health and safety of people and wildlife.

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85. <u>Access and Haul Roads:</u> All access and haul roads onsite, not identified as retained for postoperation uses, shall be reclaimed at the conclusion of ground-disturbing activities.

- 86. <u>Site Re-Contour:</u> The applicant/operator shall re-contour the site at the conclusion of operations (platforms, stockpiles, settling ponds, etc.). The site should resemble natural landforms where possible.
- 87. <u>Reclamation Completion:</u> Following reclamation verification and release of Financial Assurances pursuant to CCR Section 3805.5, Planning will prepare a "Notice of Reclamation Plan Completion" on a form to be approved by the County Recorder's Office. The operator shall pay any and all review and recording fees.

#### **CONCLUSION OF CONDITIONS**

## **EXHIBIT C**

**Biological Report** 



#### Memorandum

Date: November 18, 2019

**From:** Bai "Tom" Tang, CRM TECH

**To:** Cheryl A. Tubbs and Frank Amendola, Lilburn Corporation

Subject: Follow-up with the Chemehuevi Indian Tribe, Cove and Ocotillo Quarries, Apple Valley-

Lucerne Valley Area, San Bernardino County, California

#### Dear Cheryl and Frank:

This memorandum, as an addendum to our recently completed cultural resources studies for the Cove Quarry Project near the unincorporated community of Lucerne Valley and the Ocotillo Quarry Project near the Town of Apple Valley, summarizes the results of follow-up efforts that we pursued to obtain a response from the Chemehuevi Indian Tribe to the March 22, 2019, request for comments. As you may recall, the Native American Heritage Commission reported the presence of unspecified Native American cultural resource(s) in the general vicinity of these projects and referred further inquiry to the Chemehuevi Indian Tribe, but the tribe had not responded to the inquiry by the time we completed our reports in September and October, 2019.

On November 7, 2019, at the request of the County of San Bernardino, we again contacted Matthew Leivas, Director of the Chemehuevi Cultural Center, who was the Chemehuevi Indian Tribe's designated spokesperson on cultural resources issues. The contact was initiated by e-mail, with a copy sent to Tribal Chairperson Charles Wood at the same time (see attached copy). In reply, Bridget Sandate, Mr. Leivas' successor at the Chemehuevi Cultural Center, stated by e-mail on November 14 that the tribe had no specific comments regarding these projects but requested immediate notification if any cultural resources were found during earth-moving activities (see attached copy for details). Ms. Sandate, however, did not provided any information regarding the cultural resource(s) reported by the Native American Heritage Commission.

Thank you for this opportunity to be of service.

Sincerely,

Bai "Tom" Tang, M.A.

Principal, CRM TECH

Encl.: e-mail correspondence with the Chemehuevi Indian Tribe, November 7-14, 2019.

Tel: 909 824 6400 Fax: 909 824 6405

From: Nina Gallardo <ngallardo@crmtech.us>
Sent: Thursday, November 7, 2019 2:45 PM

To: cultural@cit-nsn.gov Cc: chairman@cit-nsn.gov

Subject: Cove and Ocotillo Quarries, Apple Valley-Lucerne Valley Area, San Bernardino County,

California (CRM TECH #3449A and #3450A)

#### Dear Director Leivas:

I am writing to follow up on a Native American scoping letter that I sent you on March 22, 2019, regarding the proposed Cove Quarry and Ocotillo Quarry projects located near the community of Lucerne Valley and the Town of Apple Valley, respectively (see attached map). As you may recall, the Native American Heritage Commission informed us that the Sacred Lands File indicated the presence of unspecified Native American cultural resource(s) in the general vicinity of the project locations and referred further inquiry to the Chemehuevi Indian Tribe (see attached letter).

At this time, we have not received a response from the Chemehuevi Indian Tribe. Meanwhile, the County of San Bernardino, which is the lead agency for the projects, has informed us that since the Chemehuevi Indian Tribe does not have a general request letter on file with the County for this area, the tribe was not included in the AB 52 consultation process for these two projects. In order to make sure that the Chemehuevi Indian Tribe does have a chance to participate in the consultations and that any input from the tribe is included in the cultural resources documentation, the County has requested that CRM TECH follow up on the previous contact attempt and inquire again whether your office has any further information on the Native American cultural resource(s) referenced by the commission or any other cultural resources concerns over the project locations.

If you have any information, comments, or questions regarding either the Cove Quarry or the Ocotillo Quarry, I would appreciate an opportunity to hear from you as soon as possible. The best way to reach me, as always, is by e-mail at ngallardo@crmtech.us, by telephone at (909) 824-6400, or by facsimile at (909) 824-6405.

Thank you very much for your time!

Nina Gallardo Project Archaeologist/Native American liaison CRM TECH 1016 E. Cooley Drive, Ste. A/B Colton, CA 92324

CC: Chairman Wood

Encl.: NAHC response letter and project location map

From: Bridget Sandate <cultural@cit-nsn.gov>
Sent: Thursday, November 14, 2019 12:34 PM

**To:** ngallardo@crmtech.us

**Subject:** Re: Cove and Ocotillo Quarries, Apple Valley-Lucerne Valley Area, San Bernardino

County, California (CRM TECH #3449A and #3450A)

#### Hello Nina,

My name is Bridget Sandate. I am the new Director for the Chemehuevi Cultural Center. Matt resigned back in September and I joined mid October. After looking in further to these sites, the Chemehuevi Indian Tribe has no specific comments regarding the referenced project. However, if during construction evidence of cultural resources are found, please cease all activity and contact us immediately. We shall continue from there. If anything should be mailed, the address in the attachment for the Native American Heritage is still good. Everything then gets forwarded to me. Anything else regarding these you think I should know please email it my way.

Thank you,

Bridget Sandate Cultural Director Chemehuevi Indian Tribe 760.858.1115

Fax: 760.858.5400

## **EXHIBIT D**

Findings

#### FINDINGS: CONDITIONAL USE PERMIT

MINING CONDITIONAL USE PERMIT (MINING CUP) AND RECLAMATION PLAN 2020M-04 TO PERMIT MINERAL EXTRACTION ON 36 ACRES OF A 124.5 ACRE PROPERTY FOR ONE-HUNDRED (100) YEAR OPERATING PERIOD (PROJECT)(PROJECT NUMBER PROJ-2020-00017; APN: 0464-171-01).

The following Section 85.06.040 Mining CUP findings must be made in the affirmative, pursuant to Development Code Section 88.03.060(k)(1), in order to approve the Project's mining CUP:

1. THE SITE FOR THE PROPOSED BORROW PIT SITE IS ADEQUATE IN TERMS OF SHAPE AND SIZE TO ACCOMMODATE THE PROPOSED USE AND ALL OPEN SPACE, SETBACKS, AND OTHER REQUIRED FEATURES PERTAINING TO THE APPLICATION.

The 124.5-acre parcel, of which 36-acres will be used for mining, is of adequate size and shape to accommodate the borrow pit and the Project's operations, including the use and storage of equipment and trucking. The minimum setback requirements for the Agricultural (LV/AG-40) zoning district in the Desert Region is 25 feet from the property line. No other development is located within the vicinity.

2. THE SITE FOR THE PROPOSED USE HAS ADEQUATE ACCESS, WHICH MEANS THAT THE SITE DESIGN INCORPORATES APPROPRIATE STREET AND HIGHWAY CHARACTERISTICS TO SERVE THE PROPOSED USE.

Access for workers to the site will be from existing Cove Road, which is a public improved road. The material will be transported to various location throughout the County to facilitate the repair of roadways and ample access is provided to serve the subject property.

3. THE PROPOSED USE WILL NOT HAVE A SUBSTANTIAL ADVERSE EFFECT ON ABUTTING PROPERTIES OR THE ALLOWED USE OF THE ABUTTING PROPERTY, WHICH MEANS THE USE WILL NOT GENERATE EXCESSIVE NOISE, TRAFFIC, VIBRATION, LIGHTING, GLARE, OR OTHER DISTURBANCE.

As described in Finding No. 1 above, minimum setback requirements for the Agricultural (LV/AG-40) zoning district in the Desert Region is 25 feet from the property line. As described in Finding No. 2 above, access roads have been established to permit workers to enter the site from Cove Road. All applicable County noise, vibration, and lighting standards will apply to the Project and are included in the Project's Conditions of Approval.

4. THE PROPOSED USE AND MANNER OF DEVELOPMENT ARE CONSISTENT WITH THE GOALS, MAPS, POLICIES, AND STANDARDS OF THE COUNTY GENERAL PLAN AND ANY APPLICABLE COMMUNITY OR SPECIFIC PLAN.

General Plan standards for the Agricultural and Resource Conservation District are to preserve open space. The Project is a temporary use of 124.5 acres, County-owned parcels of land that will remain as open space and maintenance yard upon Project competition. Use of the site for fill material extraction allows a measure of economic gain while maintaining the site's open space value. As such, the Project is consistent with the goals, policies, and

standards of the County General Plan, including, but not limited to, the goals, policies, and standards identified below:

<u>LAND USE ELEMENT:</u> Agricultural (LV/AG-40) <u>LAND USE ZONING DISTRICT</u> Applicable site-specific policies for the Agricultural (AG) Zoning District include:

#### Purpose

- To recognize commercial agriculture as a desirable land use type and a major segment of the County's economic base.
- To identify areas where agriculture is the primary land use but where other secondary uses that directly support agricultural uses may be permitted.
- To preserve the agricultural base of the County economy and encourage the open space values of these uses.
- To provide areas for both intensive and extensive agricultural pursuits.
- To identify areas of commercial (prime and non-prime) agricultural soils and operations.

#### Locational Criteria

- Areas previously designated as agricultural preserve, whether or not they are under contract.
- Areas that may be eligible for designation as an agricultural preserve.
- Areas where the only residential uses allowed are for property owners or employees actively engaged in agricultural operations.
- Rural areas where existing land uses are mainly truck crops, specialty crops, row and field crops, irrigated crops and pasture, irrigated vineyards and orchards, dry farm orchards and vineyards, dry farm and grain, and grazing and rangeland on parcels of 10 acres or greater.
- Areas where parcel sizes and ownership patterns are sufficiently large to accommodate agricultural operation, buffered from incompatible land uses.
- Areas with limited infrastructure facilities and where limited public improvements will be planned or developed in the next 20 years.
- Areas that are not adjacent to a Single or Multiple Residential (RS or RM) District, except where the minimum parcel size in the Residential District is 1 acre or larger.

#### **OPEN SPACE ELEMENT: GOALS AND POLICIES**

Applicable site-specific Desert Region Goals and Policies from the Open Space Element include:

GOAL D/OS -1 Provide for uses that respect open space values by utilizing appropriate land use categories on the Land Use maps. Land use zoning districts appropriate for various types of open space preservation include: Agriculture (AG), Floodway (FW), Resource Conservation (RC), and Open Space (OS).

5. THERE IS SUPPORTING INFRASTRUCTURE, EXISTING OR AVAILABLE, CONSISTENT WITH THE INTENSITY OF THE DEVELOPMENT, TO ACCOMMODATE THE PROPOSED PROJECT WITHOUT SIGNIFICANTLY LOWERING SERVICE LEVELS.

No additional County infrastructure or services are required to be supplied for this Project.

6. THE LAWFUL CONDITIONS STATED IN THE APPROVAL ARE DEEMED REASONABLE AND NECESSARY TO PROTECT THE OVERALL PUBLIC HEALTH, SAFETY AND GENERAL WELFARE.

The Project Conditions of Approval require compliance with countywide development standards and include measures designed to minimize project specific noise, vibration, lighting, and air quality conditions, as well as enforce countywide performance standards.

7. THE DESIGN OF THE SITE HAS CONSIDERED THE POTENTIAL FOR THE USE OF SOLAR ENERGY SYSTEMS AND PASSIVE OR NATURAL HEATING AND COOLING OPPORTUNITIES.

Although solar energy generation and use is not a part of this Project proposal, neither would it be precluded should the need and desire for such use arise.

#### FINDINGS: RECLAMATION PLAN

A Reclamation Plan to permit temporary excavation of the Cove Borrow Pit to provide fill materials for roadway repairs (Project Number PROJ-2020-00017) (APN: **0464-171-01**).

Pursuant to Development Code Section 88.03.060(k)(2), the following findings must be made in the affirmative in order to approve the Project's mining Reclamation Plan:

1. THE RECLAMATION PLAN COMPLIES WITH THE CALIFORNIA SURFACE MINING AND RECLAMATION ACT OF 1975 ("SMARA") (PUBLIC RESOURCES CODE SECTIONS 2772-2773) AND ANY OTHER APPLICABLE PROVISIONS.

The Mine Reclamation Plan (Reclamation Plan) was reviewed and conditioned for compliance with SMARA. It has also been reviewed and accepted by the California Department of Conservation Division of Mine Reclamation (DMR).

2. THE RECLAMATION PLAN COMPLIES WITH APPLICABLE REQUIREMENTS OF STATE MINING REGULATIONS (CALIFORNIA CODE OF REGULATIONS SECTIONS 3500-3505 AND 3700-3713).

The Reclamation Plan was reviewed and conditioned for compliance with State mining regulations. It has also been reviewed and accepted by the DMR.

3. THE RECLAMATION PLAN AND POTENTIAL END USE OF LANDS RECLAIMED IN COMPLIANCE WITH THE PLAN ARE CONSISTENT WITH THIS CHAPTER AND THE GENERAL PLAN AND ANY APPLICABLE RESOURCE PLAN OR ELEMENT.

The Reclamation Plan and potential end use of lands disturbed and reclaimed in compliance with the Plan, as conditioned, are consistent with the Development Code and General Plan. No additional resource plans or elements apply.

4. THE RECLAMATION PLAN HAS BEEN REVIEWED IN COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) AND THE COUNTY'S ENVIRONMENTAL REVIEW GUIDELINES, AND ALL SIGNIFICANT ADVERSE IMPACTS FROM RECLAMATION OF THE SURFACE MINING OPERATIONS ARE MITIGATED BELOW A LEVEL OF SIGNIFICANCE OR TO THE MAXIMUM EXTENT FEASIBLE.

There is no substantial evidence that the Project will have a significant effect on the environment because an Initial Study has been completed for the proposed Project and it is determined, on the basis of staff's independent evaluation, that the Project will not have a significant adverse impact on the environment with the implementation of all the conditions of approval and environmental mitigation measures.

5. THE LAND AND/OR RESOURCES, SUCH AS WATER, WILL BE RECLAIMED TO A CONDITION THAT IS COMPATIBLE WITH, AND BLENDS IN WITH, THE SURROUNDING NATURAL ENVIRONMENT, TOPOGRAPHY, AND OTHER RESOURCES, OR SUITABLE OFF-SITE DEVELOPMENT WILL COMPENSATE FOR RELATED DISTURBANCE TO RESOURCES VALUES.

Affected lands will be reclaimed to a condition compatible with, and blending with, the surrounding natural environment, topography, and other open space resources as identified in the Reclamation Plan. Financial Assurances and annual mine inspections pursuant to SMARA will take place to ensure this occurs. Groundwater resources will also be monitored and mitigated should related disturbance to this resource occur.

6. THE RECLAMATION PLAN WILL RECLAIM THE MINED LANDS TO A USABLE CONDITION WHICH IS READILY ADAPTABLE FOR ALTERNATIVE LAND USES CONSISTENT WITH THE GENERAL PLAN AND APPLICABLE RESOURCE PLAN.

The Reclamation Plan, as conditioned, along with annual mine inspections pursuant to SMARA will ensure reclamation of the mined lands return to a usable condition that is readily adaptable for alternative land uses consistent with Agricultural use and Open Space.

7. A WRITTEN RESPONSE TO THE STATE DEPARTMENT OF CONSERVATION HAS BEEN PREPARED, DESCRIBING THE DISPOSITION OF MAJOR ISSUES RAISED BY THAT DEPARTMENT. WHERE THE COUNTY'S POSITION IS AT VARIANCE WITH THE RECOMMENDATIONS AND OBJECTIONS RAISED BY THE STATE DEPARTMENT OF CONSERVATION, THE RESPONSE SHALL ADDRESS, IN DETAIL, WHY SPECIFIC COMMENTS AND SUGGESTIONS WERE NOT ACCEPTED.

The County sent a written response, dated May 28, 2020, to the DMR in response to its April 20, 2020 review of the Cove Borrow Pit Mine Reclamation Plan. Staff provided a detailed response to each comment, along with the required 30-day notification of intent to approve the Project at a Planning Commission hearing scheduled for November 19, 2020. Each

concern expressed by DMR has been addressed and/or incorporated into the revised Reclamation Plan.

#### FINDINGS: CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

8. THE PROJECT WILL NOT HAVE A SIGNIFICANT ADVERSE IMPACT ON THE ENVIRONMENT, SUBJECT TO IMPLEMENTATION OF THE PROPOSED CONDITIONS OF APPROVAL AND MITIGATION MEASURES.

There is no substantial evidence that the Project will have a significant effect on the environment because an Initial Study has been completed for the proposed Project and it is determined, on the basis of staff's independent evaluation, that the Project will not have a significant adverse impact on the environment with the implementation of all the conditions of approval and environmental mitigation measures. The proposed Mitigated Negative Declaration for this Project reflects the County's independent judgment in making this decision. Therefore, adoption of a Mitigated Negative Declaration is recommended.

# **EXHIBIT E**

Initial Study / Mitigated Negative Declaration

# Initial Study/Mitigated Negative Declaration County of San Bernardino Department of Public Works

**Cove Borrow Pit** 

**Lucerne Valley** 

# Lead Agency:



County of San Bernardino Land Use Services

385 N. Arrowhead Ave., San Bernardino, CA 92415

Technical assistance provided by:



Lilburn Corporation

1905 Business Center Drive San Bernardino, CA 92408

June 2020

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#### **SECTION 1 – INTRODUCTION**

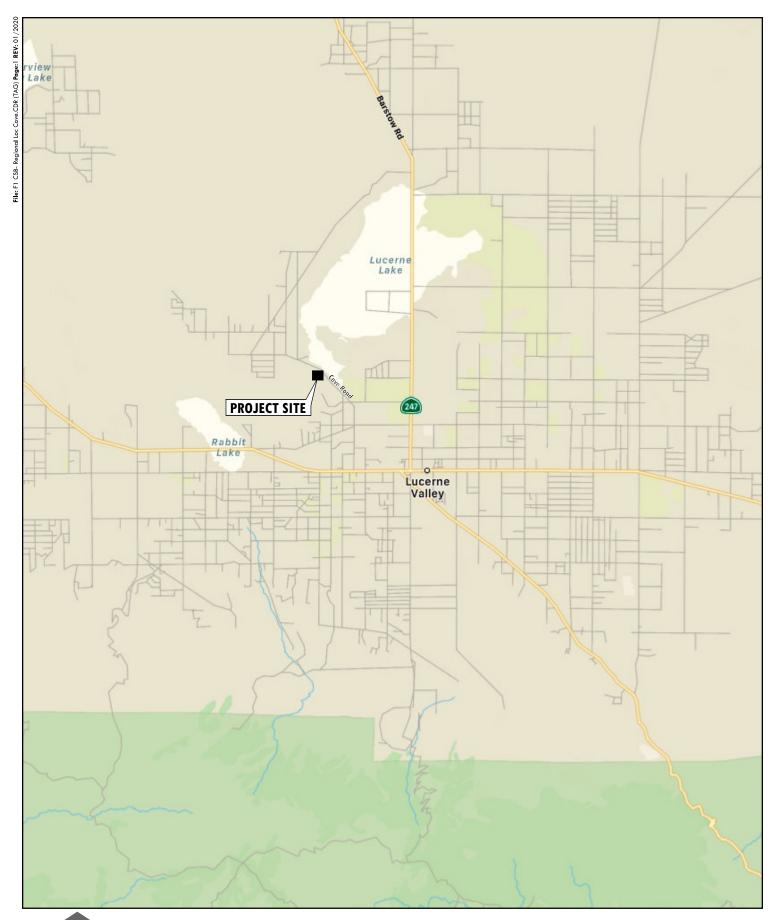
San Bernardino County, Department of Public Works (DPW) is submitting an application for a Conditional Use Permit (CUP)-PROJ-2020-00017-and a Mining Reclamation Plan (Plan) for the existing Cove Borrow Pit. This application is to annually provide up to 1,000 cubic yards (cy) of material for various roads, culverts, and other DPW sites for annual maintenance and/or emergency repair due to storm events.

The Project Site is located south of Cove Road between Banta Road and Baker Road, within the community of Lucerne Valley, approximately 10 miles east of the Town of Apple Valley (see Figure 1 - Regional Map). The three County owned parcels are approximately 124.5-acres (APN 0464-171-01; 0452-041-64; 0451-022-04) and are within the west part of San Bernardino County in portions of Sections 33 and 34, Township 5 North, Range 1 West, and Section 3, Township 4 North, Range 1 West (see Figure 2 - Vicinity Map). Elevations of the parcels range from 2,860 feet above mean sea level (amsl) along Cove Road to a high of about 3,100 feet amsl on the southwest corner of the southern parcel and 3,035 feet amsl on the southwest corner of the western parcel. Cove Road bisects the site on the north. The undisturbed portions of the Project Site are mainly vegetated with sage scrub. The adjacent properties to the north, west, and southwest are vacant. An isolated rural residence is located to the south and one to the east.

Cove Borrow Pit will provide construction material in the vicinity to reduce transportation costs and fuel usage from transporting material from more distant material sources. The material will be transported to various DPW maintained facilities and sites for annual maintenance and/or emergency repairs as needed. The Project Site has been used by the DPW since the 1960s. Approximately 14.5 acres have been disturbed by past grading and material storage uses.

# **Project Purpose and Need:**

The purpose of this application is to permit the Cove Borrow Pit on approximately 36 acres for a 100-year period to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to mine 14.7 acres on the mostly undisturbed hillside slopes in the southwest portions of the site to annually remove up to 1,000 cy with maximum pit depth in Pits 1A and 1B of 20 feet and in Pit 2 of 45 feet. A 5-acre Staging Area, a 2-acre Processing Area and a 6.5-acre stormwater detention basin are also proposed. All active mining areas will be south of Cove Road. No activity is planned to the northeast of Cove Road. The reclaimed end use of the site is for a DWP material maintenance and storage yard. Approximately 88.5 acres or 71% of the three parcels will not be disturbed.



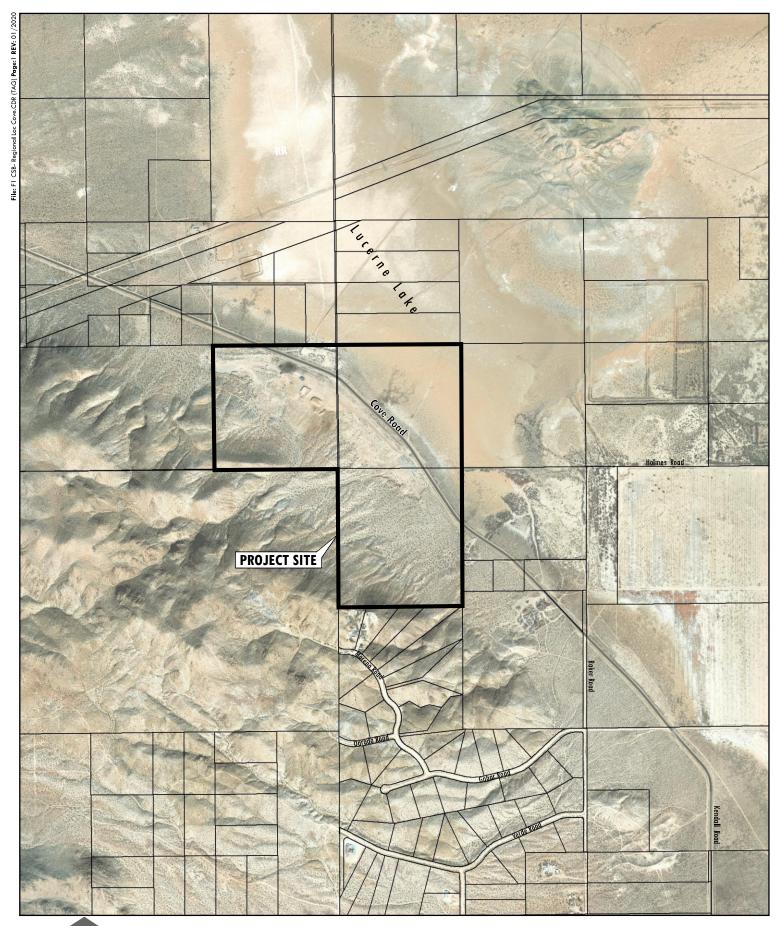


# **REGIONAL LOCATION**

**COVE BORROW PIT** 

County of San Bernardino, California

Page 153 of 260 FIGURE 1





# **PROJECT VICINITY**

**COVE BORROW PIT** 

County of San Bernardino, California

Page 154 of 260 FIGURE 2

## SECTION 2 – REGULATORY FRAMEWORK

The County of San Bernardino Department of Public Works has identified that the Cove Borrow Pit Project meets the California Environmental Quality Act (CEQA) Guidelines Section 15378 definition of a Project. CEQA Guidelines Section 15378 defines a Project as the following:

"Project" means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment.

In accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Sections 21000-21177), this Initial Study has been prepared to determine potentially significant impacts upon the environment resulting from the construction, operation and maintenance of the Cove Borrow Pit Project (hereinafter referred to as the "Project" or "proposed Project"). In accordance with Section 15063 of the State *CEQA Guidelines*, this Initial Study is a preliminary analysis prepared by the County of San Bernardino Department of Public Works as Lead Agency to inform the Lead Agency decision makers, other affected agencies, and the public of potential environmental impacts associated with the implementation of the proposed Project.

#### **Initial Study Organization**

This Initial Study is organized as follows:

**Introduction:** Provides the regulatory context for the review along a brief summary of the CEQA process.

**Project Information:** Provides fundamental Project information, such as the Project description, Project location and figures.

**Lead Agency Determination:** Identifies environmental factors potentially affected by the Project and identifies the Lead Agency's determination based on the initial evaluation.

**Mitigated Negative Declaration:** Prepared when a determination can be made that no significant environmental effects will occur because revisions to the Project have been made or mitigation measures will be implemented which will reduce all potentially significant impacts to less than significant levels.

**Evaluating Environmental Impacts:** Provides the parameters the District uses when determining level of impact.

**CEQA Checklist:** Provides an environmental checklist and accompanying analysis for responding to checklist questions.

**References:** Include a list of references and various resources utilized in preparing the analysis.

#### **SECTION 3 – DETAILED PROJECT DESCRIPTION**

#### **Mining Operations**

Mining operations will be undertaken over a period of up to 100 years beginning in early 2020 and extending until the end of 2119. An estimated 1,000 cy annually would be excavated on an intermittent basis over the course of the life of mine. The operational areas will be fenced as determined in the field with a combination of desert tortoise fencing and 4-strand wire according to the protocols in Chapter 8 of the Desert Tortoise Field Manual (USFWS 2009).

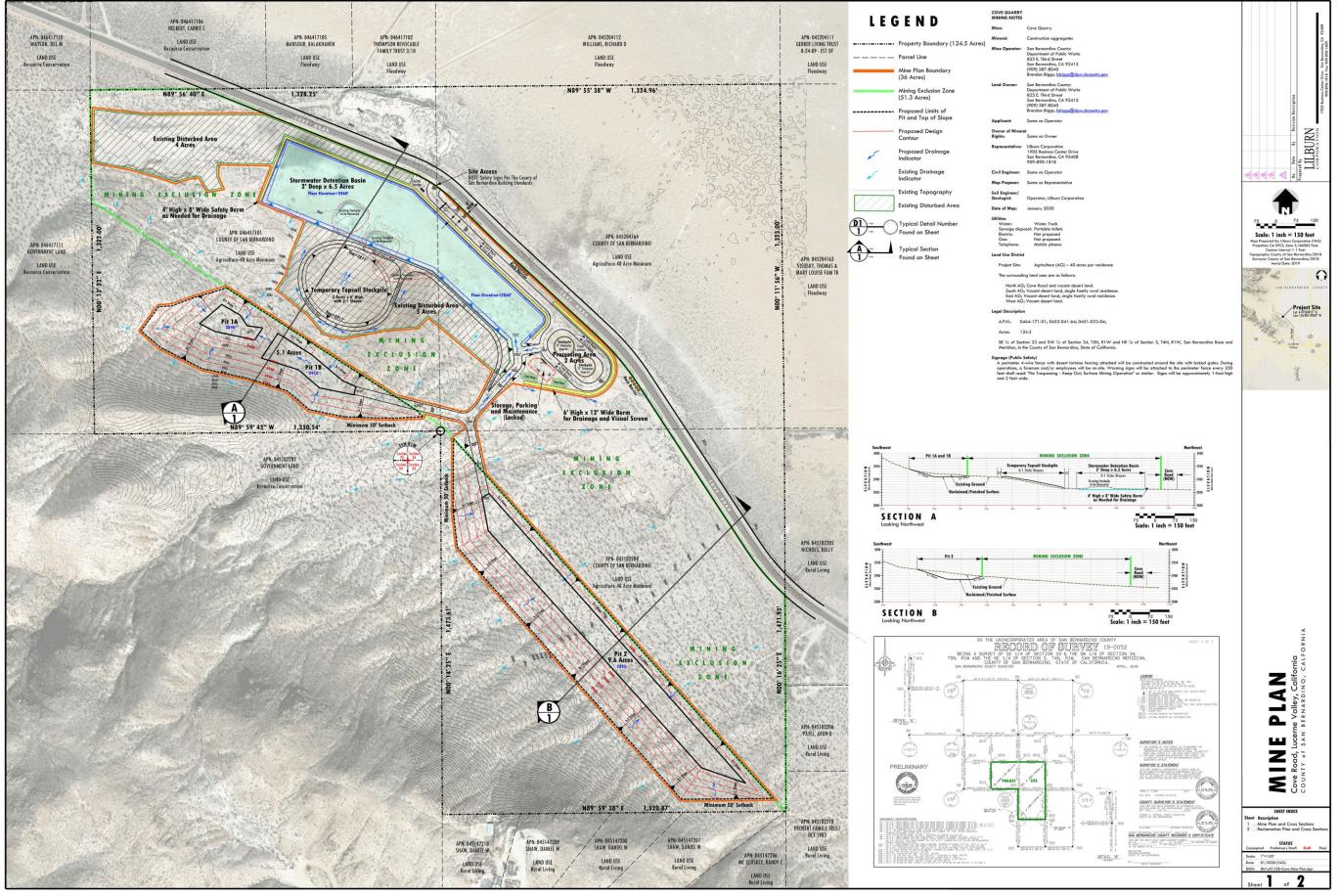
Mining will take place in two pit areas on 14.7 acres on the mostly undisturbed hillside slopes in the southwest portions of the site with a 3 horizontal to 1 vertical slopes (3H:1V) or 18° slopes. Pits 1A and 1B will be mined on approximately 5.1 acres in the southwest portion of the west half of the site. Pit 2 would be developed on 9.6 acres in the central portion of the south half with one acre of connecting and access roads. A 5-acre Staging Area, a 2-acre Processing Area and a 6.5-acre stormwater detention basin are also proposed. All active mining areas will be south of Cove Road. No activity is planned to the northeast of Cove Road. The reclaimed end use of the site is for a DWP material maintenance and storage yard. A 50-foot wide setbacks will be established along Cove Road from a 60-foot right-of-way (ROW) width, as well as along the southern boundary of Pit 1, and along the northwestern and southeastern boundary of Pit 2. All remaining areas will have a setback greater than 50-foot.

The 6.5-acre (two feet deep) stormwater detention basin will retain run-off that moves northeast off the mined slopes and remainder of the site. Approximately 4 acres not to be further utilized are considered existing disturbance area and will be reclaimed. Refer to Figure 3 and Figure 4 for the Mine Plan and Mine Plan Cross Section, respectively.

Mining of the site is achieved with one loader, one excavator, and a dozer to break, move, and load material directly into single truck trailer or double truck trailers with capacity of up to approximately 10 to 25 cy (typical). A complete list of the typical equipment to be used on-site and for transport to various sites in the vicinity is included in Table 1. There will be no crushing, screening, or conveying conducted on-site. There will be no buildings or a scale on-site.

Mining of the site is will be conducted from approximately 2,890 to 2,930 feet amsl in Pit 1A with a 20-foot deep pit from 2,910 to 2,930 feet amsl in Pit 1B. Pit 2 will be mined from about 2,900 feet amsl to 2,930 feet amsl. Mining will be conducted into the hillside at a 3H:1V overall slope. The setbacks as described above will be maintained around the entire excavation area for safety. These setbacks will include desert tortoise and 4-strand wire exclusion fencing with warning signs on the outside edge of the property and secured gates. Access into the mining area will be from Cove Road via a 30-foot wide road. Once off the Project Site, the street-legal transport trucks will utilize Cove Road.

Truck traffic is anticipated at a rate of approximately 50 loads per year based on street-legal 20 cy trucks and DPW project demand. The trucks will travel on Cove Road to DPW projects. To minimize dust generation, a water truck will be retained for use during excavations and loading of haul trucks. The mine operator shall water spray working mine areas and access roads on-site on a regular basis and more frequently as needed during windy conditions. Water used for dust control shall be obtained from a local water supplier via a water truck. Un-surfaced haul road and access road will also have dust controlled with or covered with road base material as needed.



Property Line

Top of Slope

Source: Lilburn Corp., 01/2020 (TAG).

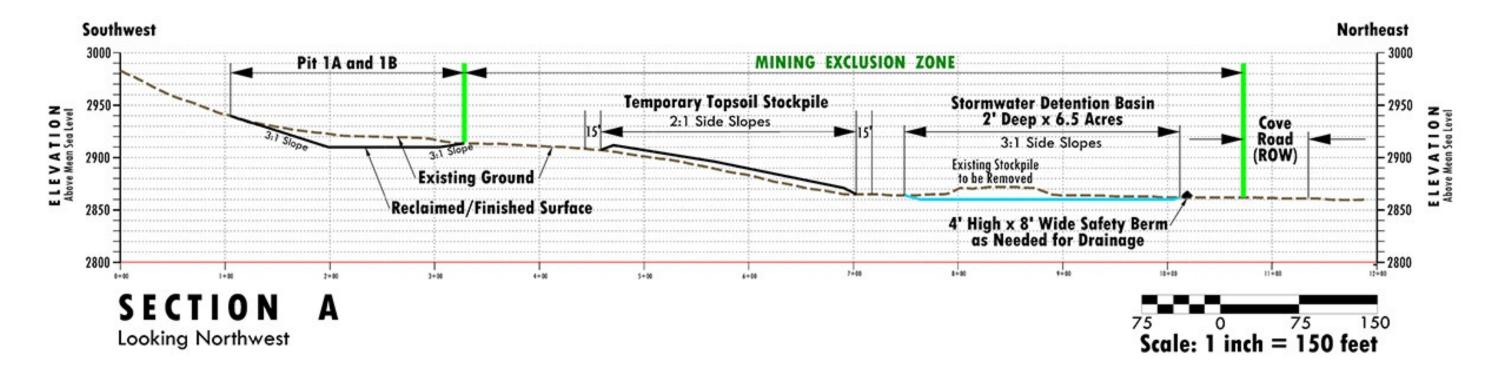
CORPORATION

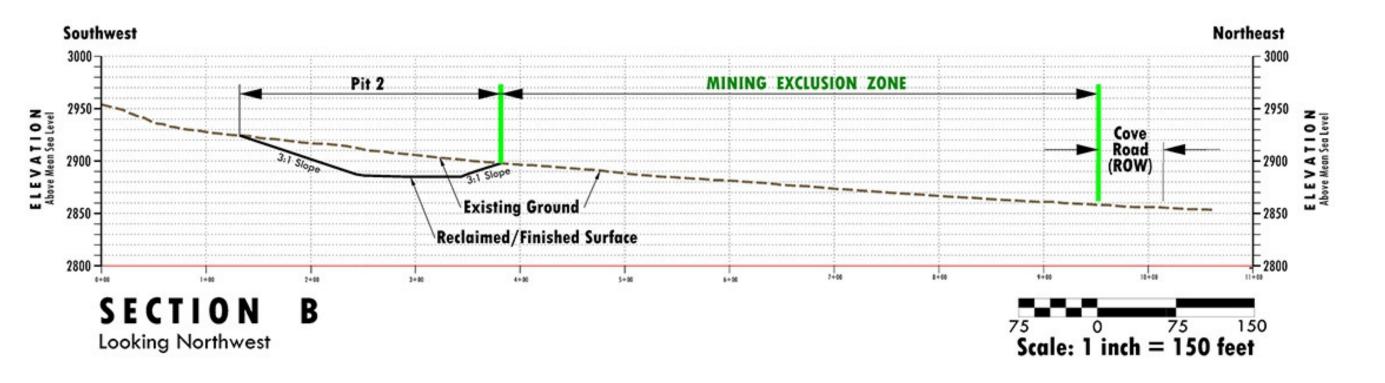
Proposed Contour

Desert Tortoise Fence
Existing Contour

MINE PLAN
COVE BORROW PIT

County of San Bernardino, California





# **CROSS SECTIONS**

**COVE BORROW PIT** 

County of San Bernardino, California

Page 158 of 260 FIGURE 4 Table 1
Mobile Mine and Transport Equipment (Typical)

Equipment Type	Typical Number	Hours/day	Purpose
Dozer	1	4	Excavate and loosen material. Access construction and maintenance.
2-5 Axle Dump / Haul Trucks	2	4	Transportation of material.
Excavator	1	4	Excavate and load material into trucks.
Loader	1	4	Excavate and load material into trucks.
Water Truck	1	4	Water for dust control on mining areas, haul roads, and stockpiles.

Source: DPW July 2019

Note that equipment listed is typical and makes and models will vary.

Site operations will be conducted as needed intermittently primarily from 5:30 am until 8 pm (daylight hours only), up to six days per week; Monday through Saturday. Occasionally operations may be conducted on Sundays depending on possible emergency road repair, construction and maintenance needs. All refuse shall be disposed into approved trash bins and removed by the operator or a commercial vendor. Portable toilets will be used on-site when in operation and serviced by a commercial vendor. Bottled water will be provided to employees.

#### Mine Waste

Although portions of the site have been disturbed in the past, those areas with some topsoil as well as undisturbed mining areas will have the top one foot of surface material pushed into the storage stockpiles or perimeter berms shown on the mine plan. No overburden or waste material is expected; therefore, no method is required or planned for handling or storage of mine waste.

There will be no imported waste materials or chemicals brought to the project site or stored on-site besides fuel and equipment maintenance fluids during active mining periods. Maintenance and fueling will be conducted by a mobile maintenance truck if needed and Best Management Practices (BMPs) will be implemented. All used fluids will be removed from the equipment and from the site following standard regulations. No fuel or used fluids will be stored on-site.

#### Ore Processing

The mined material will be loaded directly into trucks for transport to DWP Sites. No crushing or screening or any process plant facilities are utilized on-site. There is no need for on-site diesel-powered electricity or commercial power.

#### **Production Water**

Water use on-site will be utilized to minimize fugitive dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 4,000 gallons of water a day (6 to 20 days a year) may be used for dust suppression activities. The 4,000-gallon water truck will fill at a Mojave Water Agency designated hydrant. It is not anticipated that there will be any excess water from the dust control procedures; therefore, no recycling is required or planned. The County has a memorandum of understanding (MOU) with the Mojave Water Agency.

#### **Erosion and Sedimentation Control**

DPW is required to comply with Statewide National Pollutant Discharge Elimination System (NPDES) and prepare and implement a Storm Water Pollution Protection Plan (SWPPP) including applicable BMPs. The control of drainage, erosion, and sedimentation of the mine site will primarily be conveyed into a storm water detention basin and with implementation of the following primary BMPs as applicable:

- Limiting surface disturbance to the minimum area required for active operations;
- Monitoring erosion on slopes and implementation of one or more soil stabilization practices as applicable for the site such as: earthen berms or dikes; silt fence; fiber rolls; straw bales; gravel bags; sediment basin(s); and straw mulch.
- Stabilizing disturbed areas through grading slopes to 3H:1V; and
- After project completion final revegetation of slopes will be by seeding or hydro-seeding with native species.

The final slopes will gently slope at 3H:1V upward 30 feet from the north to south. There are no drainage or run-off channels that will be affected by the mining. Principally, only direct precipitation will affect the site from the hillside slopes. The pits are designed with a natural grade towards the northwest to collect any run-off from the slopes in that area that will act as a sediment or retention basin (percolation basin). The slopes are designed at very gentle 3H:1V that would reduce possible slope erosion and runoff channeling down the slopes. In addition, a 6.5-acre two-foot-deep storm water detention basin will be developed to collect any run-off that may move off the slopes and other portions of the site. There will be no run-off off away from the site. All precipitation will be collected within the pits or within the storm water detention basin and allowed to evaporate or percolate.

During the course of mining and the final design of the 3H:1V slope contouring, some erosion may occur during heavy rainfall on the slopes. Erosion sediment caused by rainfall will be retained at the bottom of the pit and/or detention basin and rills or channels backfilled. Any water retained within the pit and/or detention basin will not impact adjacent properties or local road due to its containment.

After each major storm event or on an annual basis, any final slopes will be visually inspected to determine if any substantial erosion is evident such as sheet, rill or gully erosion. A major storm event is defined as precipitation totals of 0.5 inches per 24-hour period. Any rills or gullies in excess of eight square inches in cross sectional area and are more than 10 linear feet located on final slopes shall be arrested using methods listed above.

Revegetation will be used for the long-term control of erosion. Access points and mined surfaces will be water sprayed as necessary to reduce wind erosion during operations.

#### **Blasting**

There will be no blasting on this Project Site, therefore, no explosives will be used or stored on-site.

#### **Reclamation Plan**

The intent of the California Surface Mining and Reclamation Act (SMARA) of 1975, as amended, is to "maintain an effective and comprehensive surface mining and reclamation policy with regulation of

surface mining operations so as to assure that: (a) adverse environmental effects are prevented or minimized and that mined lands are reclaimed to a usable condition which is readily adaptable for alternative uses; (b) the production and conservation of minerals are encouraged, while giving consideration to values relating to recreation, watershed, wildlife, range and forage, and aesthetic enjoyment; and (c) residual hazards to the public health and safety are eliminated" (Section 2712).

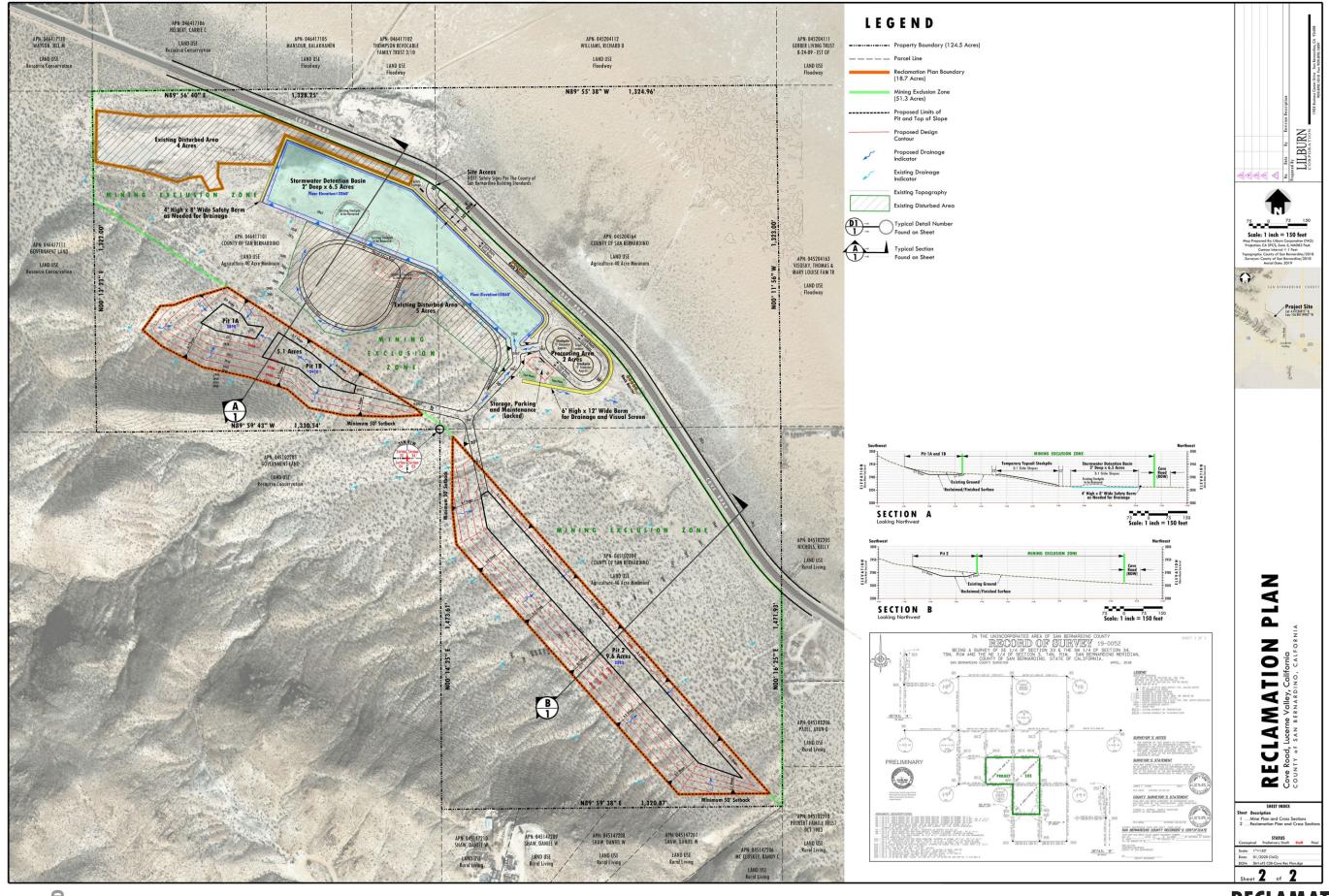
Article 9, Section 3700 of SMARA states the following: "Reclamation of mined lands shall be implemented in conformance with standards in this Article (Reclamation Standards). The standards shall apply to each surface mining operation to the extent that:

- (1) they are consistent with required mitigation identified in conformance with CEQA; and
- (2) they are consistent with the planned or actual subsequent use or uses of the mining site."

The objectives of the Reclamation Plan are to:

- Eliminate or reduce environmental impacts from mining operations;
- Reclaim in a usable condition for post-mining end uses which will be DWP material maintenance and storage yard;
- Reshape mining features and revegetate disturbed areas to minimize aesthetic and biological impacts; and
- Reclaim the site as necessary to eliminate hazards to public health and safety.

Reclamation of the mine will be undertaken at the completion of mining operations. Any over-steepened slopes will be partially backfilled or recontoured to 3H:1V. Fill material will be excess material pushed up onto slopes to create 3H:1V. The fill will be compacted by tracking the dozer over the slope to achieve necessary compaction consistent with final end use of DWP material maintenance and storage yard. Any rock or gravel on the roads to be reclaimed will be removed and used as fill in the pit area. Final graded slopes will be revegetated. The pit floor, storage areas, and access roads are to remain. The re-contoured slopes will be seeded with the recommended seed mix in this Reclamation Plan. Refer to Figure 5 for the Reclamation Plan.



Property Line

Top of Slope

Source: Lilbum Corp., 01/2020 (TAG).

CORPORATION

Proposed Contour

Desert Tortoise Fence
Existing Contour

# RECLAMATION PLAN

**COVE BORROW PIT** 

County of San Bernardino, California

#### **Monitoring and Maintenance**

The County as lead agency to implement SMARA requires annual reporting of Mining and Reclamation activities. The reports are filed with the State Division of Mine Reclamation and the County. Revegetated areas will be monitored over a five-year period or until success criteria achieved following initial planting. Data on plant species diversity, cover, survival and vigor will be collected on revegetated sites and compared to baseline data from undisturbed sites to evaluate project success.

Monitoring and maintenance of reclamation is an ongoing responsibility of the applicant and if accepted, by the landowner (County of San Bernardino).

Ongoing operations and reclamation activities require monitoring and maintenance as applicable. The operator will provide on-site review of the following among others:

- a. Storm Water Pollution Prevention per the NPDES plan and SWPPP required by State and Federal rules. Erosion control will be reviewed and addressed within the SWPPP.
- b. Implementation and effectiveness of dust control measures;
- c. Maintenance and managing idling for trucking operations;
- d. Inspection of fencing and signs; and
- e. Test revegetation plots.

#### **Public Safety**

All equipment and debris will be removed from the site upon project completion. Public access to the site will be restricted by the site perimeter four-strand wire fence and locked access gates during operations and until revegetation is deemed successful. Warning signs with contrasting background lettering will be installed every 250 feet along the approved surface mine boundary shall be installed and shall read "No Trespassing - Keep Out; Surface Mining Operation" or similar during mining. Signs will be approximately one-foot high and two feet wide.

The reclaimed 3H:1V slopes will be of sufficient low gradient as not to cause a hazard to public safety if the public illegally trespasses onto the site.

#### SECTION 4 – ENVIRONMENTAL CHECKLIST FORM

1. **Project Title:** Cove Borrow Pit

2. **Lead Agency Name:** County of San Bernardino Land Use Services

Address: 385 N. Arrowhead Ave...

San Bernardino, CA 92415

3. **Contact Person:** XXXX, Project Planner

4. **Project Location:** Community of Lucerne Valley, San Bernardino County

APNs: 0464-171-01; 0452-041-64; and 0451-022-04

Topographic Quad

(USGS 7.5"):

Lucerne Valley

Topographic Quad

T5N, R1W, Sections 33 and 34; T4N, R1W, Section 3

Coordinates

Latitude/Longitude:

34°28'30.43" N, 116°58'53.54" W

Site Access: Access to the site will be from Cove Road, an existing paved

public road.

5. **Project Sponsor:** County of San Bernardino Department of Public Works

Name and Address: 825 East Third Street, Room 123

San Bernardino, CA 92415

Nancy Sansonetti, AICP: Nancy.Sansonetti@dpw.sbcounty.gov

909-387-8109

6. **General Plan/Zoning** 

> Designation: Lucerne Valley/Agriculture – 40 Acre Minimum (LV/AG-40)

#### 7. **Project Description Summary:**

San Bernardino County, DPW is submitting an application for a Mining Conditional Use Permit and Mine Reclamation Plan for the Cove Borrow Pit. The purpose of this application is to permit Cove Borrow Pit on approximately 36 acres for a 100-year period to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to mine 14.7 acres on the mostly undisturbed hillside slopes in the southwest portions of the site to annually remove up to 1,000 cy. Mining will take place in two pit areas in the southwest portions of the site with a 3 horizontal to 1 vertical slopes (3H:1V) or 18° slopes. Pits 1A and 1B will be mined on approximately 5.1 acres in the southwest portion of the west half of the site. Pit 2 would be developed on 9.6 acres in the central portion of the south half with one acre of connecting and access roads. The reclaimed end use of the Project Site is proposed to be a DPW material maintenance and storage yard.

Details of the Project are further discussed in Section 3.

### 8. Environmental/Existing Site Conditions:

The Cove Borrow Pit is located on vacant land that has been disturbed by DPW since the 1960s for various DPW projects and equipment storage. Natural vegetation or re-growth onsite consists of primarily sage scrub bush. Elevations of the parcels range from 2,860 feet above mean sea level (amsl) along Cove Road to a high of about 3,100 feet amsl on the southwest corner of the southern parcel and 3,035 feet amsl on the southwest corner of the western parcel.

# 9. Surrounding land uses and setting:

The Project Site is located south of Cove Road between Banta Road and Baker Road, within the community of Lucerne Valley, approximately 10 miles east of the Town of Apple Valley. The surrounding land uses are as follows:

North LV/AG; Cove Road and vacant desert land.

South LV/AG; Vacant desert land, single family rural residence.

East LV/AG; Vacant desert land, single family rural residence.

West LV/AG; Vacant desert land.

#### 10. Other public agencies whose approval is required:

#### Federal:

None

## State Agencies:

Compliance with Statewide NPDES Program through Preparation and Implementation of a Storm Water Pollution Prevention Plan (SWPPP).

#### City/County Agencies:

SMARA Mine and Reclamation Plan

<u>Financing Approval or Participation Agreements: (i.e. Federal Funding? Grant Funding? JPA Agreement?)</u>

None

11. Have California Native American tribes traditionally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation?

Yes, consultation was requested and completed. See Tribal Cultural Resources section for details.

# 12. Lead Agency Discretionary Actions:

Mining Conditional Use Permit Reclamation Plan

# **ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED**

The environmental factors checked below would be potentially affected by this project, involving at least one impact requiring mitigation to be reduced to a level that is less than significant as indicated in the checklist on the following pages.

		Aesthetics		Agricultural / Forest Resources		Air Quality	
	$\boxtimes$	Biological Resources	$\boxtimes$	Cultural Resources		Energy	
		Geology / Soils		Greenhouse Gas Emissions		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	
LEA	D A	GENCY DETERMINATION	1				
On t	he b	pasis of this initial evaluation	n, the t	following finding is made:			
		he proposed project COL IEGATIVE DECLARATION		OT have a significant effect prepared.	t on	the environment, and a	
X	b	e a significant effect in this o	case b	ld have a significant effect on ecause revisions in the projec GATED NEGATIVE DECLAF	t have	been made by or agreed	
		he proposed project MA NVIRONMENTAL IMPACT		ive a significant effect or DRT is required.	the	environment, and an	
	The proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.						
	Although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.						
	]\d	Ay Steven A. Valdez			June 4	4, 2020	
Sigi	natu	re: (Steven Valdez , Planner)		<del>-</del>	ate		
 Sigi	Signature: (David Prusch , Supervising Planner) Date						

## 1. AESTHETICS

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	pt as provided in Public Resources Code Section 21099, d the project:				
a)	Have a substantial adverse effect on a scenic vista?				Х
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				Х
c)	Substantially degrade an existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			Х	
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			Х	

(Check I if project is located within a view-shed of any Scenic Route listed in the General Plan):

# **Environmental Setting**

The Project Site is located in the desert region of western San Bernardino County within a rural area with primarily undeveloped desert land in the vicinity.

#### **Impact Analysis**

a) Have a substantial adverse effect on a scenic vista?

**No Impact.** The Project Site is not located within a scenic vista recognized by the County General Plan or Lucerne Valley Community Plan. Therefore, the Proposed Project would not have a substantial adverse effect on a scenic vista. No impacts are identified or are anticipated, and no mitigation measures are required.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

**No Impact**. Goal OS 5 of the County General Plan states that the County will maintain and enhance the visual character of scenic routes in the County. However, the Project Site is not located adjacent to or within the vicinity of a designated State Scenic Highway. The nearest officially designated State Scenic Highway, as identified by the California Department of Transportation State Scenic Highway Program (2019), is a portion of State Route 38 which is located approximately 25 miles southeast of the Project Site. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

c) Substantially degrade an existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant. Impacts to visual resources are based on changes to the existing character of the landscape, viewer sensitivity, and the number of viewers that may view the project activities. The level of change associated with the Proposed Project is considered to be low as the Proposed Project is a conditionally acceptable use within the LV/AG-40 zone as demonstrated by Table 82-4, Allowed Land Uses and Permit Requirements for Agricultural and Resource Management Land Use Zoning Districts, of the San Bernardino County Development Code. Furthermore, following the completion of mining, reclamation shall take place in order to reshape mining features and revegetate disturbed areas to minimize aesthetic impacts. With implementation of the proposed Reclamation Plan and adherence to San Bernardino County Development Code, impacts are considered temporary and less than significant. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant. The Proposed Project would not create a new source of substantial light or glare which would adversely affect day or nighttime views in the area as no permanent new light sources are proposed. No lighting is proposed, however, in the event temporary lighting is needed, the operator shall comply with the requirements outlined by County Development Code Section 83.07.040, Glare and Outdoor Lighting – Mountain & Desert Regions. This includes fully shielding lights as required to preclude light pollution or light trespass on adjacent property, other property (directly or reflected), and members of the public on adjacent roads. With adherence to existing regulations, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Aesthetics Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

# 2. AGRICULTURE AND FORESTRY RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
In determining whether impacts to agricultural resources a significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation an optional model to use in assessing impacts on agriculture a farmland. In determining whether impacts to forest resource including timberland, are significant environmental effects, leagencies may refer to information compiled by the Californ Department of Forestry and Fire Protection regarding the state inventory of forest land, including the Forest and Ran Assessment Project and the Forest Legacy Assessment project and forest carbon measurement methodology provided in Fore Protocols adopted by the California Air Resources Board. Worthe project:	ne ent as as ad as ad aia es; set			
a) Convert Prime Farmland, Unique Farmland or Farmland Statewide Importance (Farmland), as shown on the material prepared pursuant to the Farmland Mapping and Monitorial Program of the California Resources Agency, to not agricultural use?	ps ng			Х
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?				Х
c) Conflict with existing zoning for, or cause rezoning of, fore land (as defined in Public Resources Code section 12220(g timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (defined by Government Code section 51104(g))?	)), on			Х
d) Result in the loss of forest land or conversion of forest land to non-forest use?				Х
e) Involve other changes in the existing environment which, do to their location or nature, could result in conversion Farmland, to non-agricultural use or conversion of forest la to non-forest use?	of nd		Х	

(Check if project is located in the Important Farmlands Overlay):

#### **Environmental Setting**

The Project Site is located in the unincorporated community of Lucerne Valley within the Lucerne Valley/Agriculture – 40 Acre Minimum (LV/AG-40) land use zoning district. Agricultural, Resource, and Open Space uses are permitted within this land use zoning district. Much of the Project Site is relatively undisturbed, comprised of native shrubs with a low-lying understory of native and non-native herbaceous species.

#### **Impact Analysis**

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?

**No Impact.** No Prime Farmland, Unique Farmland, or Farmland of Statewide Importance is identified on-site or on adjacent parcels as demonstrated by the Department of Conservation's California Important Farmland Finder. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

b) Conflict with existing zoning for agricultural use or a Williamson Act contract?

**No Impact.** The Proposed Project is a conditionally acceptable use within the LV/AG-40 zone as demonstrated by Table 82-4, Allowed Land Uses and Permit Requirements for Agricultural and Resource Management Land Use Zoning Districts, of the San Bernardino County Development Code. Additionally, the Project Site is recognized as "Non-Enrolled Land" as identified in the latest San Bernardino County Williamson Act Map (FY 2015/2016) prepared by the California Department of Conservation's Division of Land Resource Protection. As such, the Proposed Project does not conflict with existing zoning for agricultural use or a Williamson Act contract. No impacts are identified or are anticipated, and no mitigation measures are required.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

**No Impact.** The Project Site and surrounding area do not occur within forest land, timberland, or timberland zoned production. Impacts to these resource lands would not result with implementation of the Proposed Project. No impacts are identified or are anticipated, and no mitigation measures are required.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

**No Impact.** The Project Site does not support forest land and implementation of the Proposed Project would not convert forest land to non-forest use. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

**Less than Significant.** Agricultural uses are permitted within the LV/AG-40 zone as stated within Table 82-4 of the San Bernardino County Development Code. However, as previously stated, the Proposed Project is also a conditionally acceptable use within the LV/AG-40 zone. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Agriculture and Forestry Services Impact Conclusions:**

No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

## 3. AIR QUALITY

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
ap <sub>l</sub> ma	nere available, the significance criteria established by the plicable air quality management or air pollution control district by be relied upon to make the following determinations. Would be project:				
a)	Conflict with or obstruct implementation of the applicable air quality plan?			Х	
b)	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			Х	
c)	Expose sensitive receptors to substantial pollutant concentrations?				Х
d)	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				Х

(Discuss conformity with the South Coast Air Quality Management Plan, if applicable):

## **Environmental Setting**

The Project Site is located in the Mojave Desert Air Basin (MDAB). The MDAB encompasses the desert potion of San Bernardino County. The MDAQMD has jurisdiction over air quality issues and regulations within the City of Needles that includes the Project Site. To assist local agencies in determining if a project's emissions could pose a significant threat to air quality, the MDAQMD has prepared the California Environmental Quality Act (CEQA) and Federal Conformity Guideline (August 2016). The air and dust emissions from the construction and operational use of the Proposed Project were evaluated and compared to the MDAQMD air quality thresholds to determine significance.

Air emissions from the Proposed Project are subject to federal, State and local rules and regulations implemented through provisions of the federal Clean Air Act, California Clean Air Act, and the rules and regulations of the California Air Resources Board (CARB) and MDAQMD. The federal Clean Air Act and California Clean Air Act were established in an effort to assure that acceptable levels of air quality are maintained. These levels are based upon health-related exposure limits and are referred to as National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS). The ambient air quality standards establish maximum allowable concentrations of specific pollutants in the atmosphere and characterize the amount of exposure deemed safe for the public. Areas that meet the standards are designated attainment and if found to be in violation of primary standards are designated as nonattainment areas.

The United States Environmental Protection Agency (EPA) and the CARB have designated portions of the District as nonattainment for a variety of pollutants, and some of those designations have an associated classification. Table 2 lists these designations and classifications. The MDAQMD has adopted attainment plans for a variety of nonattainment pollutants.

Table 2
State and Federal Air Quality
Designations and Classifications

Ambient Air Quality Standard	Status		
Eight-hour Ozone	Expected Non-attainment; to be determined.		
(Federal 70 ppb (2015))	·		
Ozone (State)	Non-attainment; classified Moderate		
PM <sub>10</sub> (24-hour Federal)	Non-attainment; classified Moderate (portion of MDAQMD in Riverside County is		
	unclassifiable/attainment)		
PM <sub>2.5</sub> (Annual Federal)	Unclassified/attainment		
PM <sub>2.5</sub> (24-hour Federal)	Unclassified/attainment		
Non-attainment (portion of MDAQMD outside Western Mojave Desert Ozone Non-attainment)  Area is unclassified/attainment)			
PM <sub>10</sub> (State)	Non-attainment		
Carbon Monoxide (State and Federal)	Unclassifiable/Attainment		
Nitrogen Dioxide (State and Federal)	Unclassifiable/Attainment		
Sulfur Dioxide (State and Federal)	Attainment/unclassified		
Lead (State and Federal)	Unclassifiable/Attainment		
Particulate Sulfate (State)	Attainment		
Hydrogen Sulfide (State)  Unclassified (Searles Valley Planning Area i attainment)			
Visibility Reducing Particles (State)	Unclassified		

Source: MDAQMD CEQA and Federal Conformity Guidelines, August 2016

#### **Impact Analysis**

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less than Significant. The Proposed Project is a conditionally acceptable use within the LV/AG-40 zone as demonstrated by Table 82-4, Allowed Land Uses and Permit Requirements for Agricultural and Resource Management Land Use Zoning Districts, of the San Bernardino County Development Code. The Project Site is within the MDAB and under the jurisdiciton of the MDAQMD. The MDAQMD is responsible for updating the Air Quality Management Plan (AQMP). The AQMP was developed for the primary purpose of controlling emissions to maintain all federal and state ambient air standards for the district. The Proposed Project would not significantly increase local air pollutant emissions and therefore would not conflict with or obstruct implementation of the AQMP. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

Less than Significant. Mining of the site is achieved with one loader, one excavator, and a dozer to break, move, and load material directly into single trailer or double truck trailers with capacity of up to approximately 10 to 25 cy (typical). Additionally, a water truck will be utilized for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Exhaust or criteria pollutants will be produced from the mobile equipment. Dust will be produced from mining and revegetation, and travel on gravel/dirt access roads. Operations will be required to comply with the existing MDAQMD regulations for mobile equipment and fugitive dust control.

The MDAQMD has established the following significant daily emissions thresholds for determining whether the impacts from a proposed project would be considered significant per CEQA:

Carbon Monoxide (CO)	548 lbs/day
Oxides of Nitrogen (NO <sub>X</sub> )	137 lbs/day
Reactive Organic Gasses (ROG)	137 lbs/day
Oxides of Sulfur (SO <sub>X</sub> )	137 lbs/day
Particulate Matter (PM <sub>10</sub> )	82 lbs/day
Particulate Matter (PM <sub>2.5</sub> )	65 lbs/day

Operational emissions for the mobile equipment were estimated utilizing South Coast AQMD Off-Road Source Emission Factors for the 2020 operational year. Table 3 provides the estimated emissions for the planned operations in comparison to MDAQMD thresholds.

Table 3
Operational Emissions Summary
(Pounds Per Day)

Source/Phase	ROG	NO <sub>X</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Loader	0.30	1.90	1.76	0.09	0.09
Water Truck	0.23	1.41	1.40	0.06	0.05
Excavator	0.29	1.62	2.05	0.07	0.07
Dozer	0.85	6.31	3.20	0.25	0.23
2-5 Axle Dump/Haul Trucks	0.74	5.20	3.54	0.20	0.19
Totals	2.41	20.84	13.40	0.68	0.62
MDAQMD Threshold	137	137	548	82	65
Significant	No	No	No	No	No

Emission Sources: Off-Road Mobile Source Emission Factors (Scenario Year 2020)

As shown above, the anticipated operational emissions are less than the MDAQMD thresholds and would be considered less than significant. Compliance with MDAQMD rules and CARB Off-Road Diesel Vehicle regulations are listed below and are included in the estimated emissions in Table 3.

Upon completion of mining, all disturbed slopes will be reclaimed and revegetated within one year. Reclamation activities would require minor earthmoving, and other activities typically associated with final grading and revegetation. Reclamation emissions would be substantially less than the mining operations and would not exceed MDAQMD thresholds.

#### Compliance with MDAQMD Rules 402 and 403

Although the Proposed Project does not exceed MDAQMD thresholds, the Applicant is required to comply with applicable MDAQMD Rules 402 for nuisance and 403 for fugitive dust control. This would include, but not be limited to the following:

- 1. The Project Proponent shall ensure that any portion of the site to be graded shall be pre-watered prior to the onset of grading activities.
- 2. The Project Proponent shall ensure that watering of the site or other soil stabilization method shall be employed on an on-going basis after the initiation of any grading and drilling activity on the site. Portions of the site that are actively being used shall be watered to ensure that a crust is formed on the ground surface and shall be watered at the end of each workday.

- 3. The Project Proponent shall ensure that disturbed areas are treated to prevent erosion.
- 4. The Project Proponent shall ensure that mining and revegetation activities are suspended when winds exceed 25 miles per hour.

Although the Proposed Project would not exceed MDAQMD thresholds for exhaust emissions during operations, the Applicant would be required to implement the following conditions as required by MDAQMD:

- 5. All equipment used for mining and revegetation must be tuned and maintained to the manufacturer's specification to maximize efficient burning of vehicle fuel.
- 6. The operator shall comply with all existing and future CARB and MDAQMD Off-Road Diesel Vehicle Regulations related to diesel-fueled trucks, which may include among others: (1) meeting more stringent emission standards; (2) retrofitting existing engines with particulate traps; (3) use of low sulfur fuel; and (4) use of alternative fuels or equipment.

MDAQMD rules for diesel emissions from equipment and trucks are embedded in the compliance for all diesel fueled engines, trucks, and equipment with the statewide CARB Off-Road Diesel Vehicle regulations. These measures will be implemented by CARB in phases with new rules imposed on existing and new diesel-fueled engines.

The project area is within the Mojave Desert PM<sub>10</sub> Planning Area and the Western Desert Ozone non-attainment area. The State Implementation Plan (SIP) identifies sources of PM<sub>10</sub> emissions and control measures to reduce emissions. The EPA requires the application of reasonable available control technology (RACT) to stationary emission sources and reasonable available control measures (RACM) to mobile sources. These will be incorporated through compliance with rules and regulations described above. As such, with compliance with existing rules and regulations, the Proposed Project would not violate any air quality standards or contribute to an existing or projected air quality violation. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

c) Expose sensitive receptors to substantial pollutant concentrations?

**No Impact.** The MDAQMD CEQA and Federal Conformity Guidelines (August 2016) describes sensitive receptors as being residences, schools, daycare centers, playgrounds and medical facilities. The following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated using MDAQMD significance thresholds:

- Any industrial project within 1000 feet;
- A distribution center (40 or more trucks per day) within 1000 feet:
- A major transportation project (50,000) or more vehicles per day) within 1000 feet;
- A dry cleaner using perchloroethylene within 500 feet:
- A gasoline dispensing facility within 300 feet.

The Cove Borrow Pit has been mined since the 1960s to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to remove up to 1,000 cubic yards (cy) of fill material a year. No changes from existing conditions are proposed. Furthermore, the modeling results (as shown in Table 3) indicate that development of the Proposed Project is not anticipated to exceed MDAQMD emissions thresholds. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

**No Impact.** The Cove Borrow Pit has been mined since the 1960s to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to remove up to 1,000 cubic yards (cy) of fill material a year. No changes from existing conditions are proposed. Furthermore, the modeling results (as shown in Table 3) indicate that development of the Proposed Project is not anticipated to exceed MDAQMD emissions thresholds. Temporary generation of objectionable oil and diesel fuel odors associated with the use of heavy equipment may occur during mining and reclamation activities however, impacts are anticipated to be negligible as demonstrated. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Air Quality Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

## 4. BIOLOGICAL RESOURCES

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Wo	ould the project:				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?		Х		
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				Х
c)	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				Х
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		Х		
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				Х
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?			Х	

Check if project is located in the Biological Resources Overlay or Contains habitat for any species listed in the California Natural Diversity Database

#### **Environmental Setting**

In July 2019, Jericho Systems Incorporated (Jericho) prepared a Biological Resources Assessment (BRA) and Jurisdictional Delineation (JD) for the Proposed Project (available at the County offices for review). Jericho describes the Project Site as being relatively undisturbed, comprised of native shrubs with a low-lying understory of native and nonnative herbaceous species. Vegetation on-site is dominated by shrubs and herbaceous understory closely corresponding with Sawyer et al.'s white burr sage scrub (*Ambrosia dumosa* shrubland alliance). Other native species that are conspicuous in the shrub layer within the survey area include iodine bush (*Allenrolfea occidentalis*), burrobrush (*Ambrosia salsola*), Mormon tea (*Ephedra nevedensis*) and California goldenbush (*Ericameria lindleyi*). The plant community is extremely diverse with a total of 70 species observed, 18 of which were shrub species and only six nonnative species.

#### **Impact Analysis**

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

Less than Significant with Mitigation Incorporated. Jericho obtained data regarding biological resources through field investigations and review of databases containing records of reported occurrences of State- and federally listed species or otherwise sensitive species and habitats that may occur within the vicinity of the Project Site. These databases include the California Natural Diversity Database (CNDDB), California Native Plant Society Electronic Inventory (CNPSEI) databases, and the Calflora Database, among others. The database searches identified 32 sensitive species (20 plants and 12 animals) within the Lucerne Valley, Fifteenmile Valley, Apple Valley South, and White Horse Mountain USGS 7.5-minute series quadrangles.

No State- and/or federally listed threatened or endangered species, or other sensitive species were observed on-site during the field surveys; however, Jericho noted that there is some potentially suitable habitat in the undisturbed areas of the borrow pit and adjacent to the site for sensitive species. Therefore, habitat suitability assessments were conducted within the Project Site for golden eagle (*Aquila chrysaetos*) [GOEA], desert tortoise (DT), burrowing owl (BUOW), and Mohave ground squirrel (MGS).

As a result of the habitat suitability assessment, Jericho noted that one occurrence of MGS from the 1920's is documented southeast of the Project Site. MGS are thought to be extirpated east of the Interstate 15, south of Barstow and west of Highway 247. The Project Site occurs outside the established current range for the species and no further discussion or investigation is warranted. Additionally, Jericho concluded that the proposed work area will be outside of the direct line of site and over 2,500 feet away from nesting GOEA. However, since the south half of the project boundary provides potentially suitable nesting habitat for GOEA, Mitigation Measures BIO-1 and BIO-2 shall be implemented to avoid impacts to nesting GOEA during operations of the borrow pit.

The result of the protocol DT survey performed by Jericho was that no DT individuals or sign including DT burrows, carcasses, scat, courtship rings or drinking depressions were detected within the survey area. Therefore, DT are currently considered absent from the Project Site. However, because there is suitable creosote bush scrub and allscale scrub habitat on-site and there are documented desert tortoise populations to the north, east, and southwest of the Project Site, DT movement or occupation could potentially occur in the future. Therefore, Mitigation Measures BIO-3 through BIO-5 shall be implemented to avoid potentially injuring or killing any DT that may wander on-site during operations of the borrow pit within suitable DT habitat.

Additionally, it should be noted that according to protocol and standard practices, the results of the focused DT surveys will remain valid for the period of one year, or until April 2020, after which time, if the site has not been disturbed in the interim, another survey may be required to determine the persisting absence of DT on-site. DT are protected by applicable State and/or federal laws, including but not exclusive to the California Endangered Species Act (CESA) and Federal ESA. As such, if a desert tortoise is found on-site during work activities, all activities likely to affect the animal(s) should cease immediately and regulatory agencies should be contacted to determine appropriate management actions. Furthermore, it should be noted that desert tortoise may be handled only by a qualified biologist who has been given authorization by the appropriate agencies (i.e. USFWS and CDFW).

Jericho notes that no evidence of BUOW was found in the survey area. No BUOW individuals or sign including pellets, feathers, or whitewash were observed. Therefore, BUOW are currently considered absent from the Project Site. However, because there is suitable creosote bush scrub and allscale scrub habitat on-site and there are documented BUOW occurrences to the southeast of the Project Site, future BUOW occupation could potentially occur. Therefore, Mitigation Measures BIO-3 through BIO-5 shall be implemented to avoid potential impacts to BUOW during operations of the borrow pit.

Although no State- and/or federally listed threatened or endangered species or otherwise sensitive species were observed on-site during the field surveys, habitat on-site is potentially suitable to support DT, BUOW, and GOEA. As such, Mitigation Measures BIO-1 through BIO-5, defined below, shall be implemented to ensure that less than significant impacts occur.

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

**No Impact.** As stated by the JD performed by Jericho, the Project Site is within the Lucerne Lake hydrologic unit of the Colorado River hydrologic region. This watershed is not tributary to the ocean or any other water body; rather, all water either infiltrates into the groundwater basin, evaporates, or flows toward the dry lakebed of Lucerne Lake located to the northwest of the Project Site. All flow channels on-site are intermittent or ephemeral and likely only receive stream flow during and following significant rain events. The dry lakebed does not meet the definition of Waters of the U.S. due to the isolated nature of Lucerne Valley and is not subject to the Clean Water Act. Additionally, no hydrophytic vegetation, hydric soils and/or wetland hydrology, are present within the Project Site and no wetlands were identified during the survey. Furthermore, no amphibian species were observed or otherwise detected within the project area and non are expected to occur. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

**No Impact.** As concluded by Jericho, no hydrophytic vegetation, hydric soils and/or wetland hydrology, are present within the Project Site and no wetlands were identified during the survey. All water on-site either infiltrates into the groundwater basin, evaporates, or flows toward the dry lakebed of Lucerne Lake located to the northwest of the Project Site. The dry lakebed would be subject to the California Fish and Game Code Section 1600 regulations that fall under the jurisdiction of the CDFW, but the Proposed Project will not encroach into the limits of the waterbody that would require a Lake or Streambed Alternation Agreement. Therefore, no permits or authorizations will be required. No impacts are identified or are anticipated, and no mitigation measures are required.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less than Significant with Mitigation Incorporated. The federal Migratory Bird Treaty Act (MBTA) of 1918 provides protection for nesting birds that are both residents and migrants whether or not they are considered sensitive by resource agencies. The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations. The direct injury or death of a migratory bird, due to construction activities or other construction-related disturbance that causes nest abandonment, nestling abandonment, or forced fledging would be considered take under federal law. The USFWS, in coordination with the CDFW administers the MBTA. CDFW's authoritative nexus to MBTA is provided in FGC Sections 3503.5 which protects all birds of prey and their nests and FGC Section 3800 which protects all non-game birds that occur naturally in the State. Additional protection is provided to all bald and golden eagles under the Bald and Golden Eagle Protection Act of 1940, as amended.

As concluded by Jericho, vegetation suitable for nesting birds does exist within and adjacent to the Project Site. In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season, which is generally January/February to August/September, and by conducting a worker environmental awareness training. However, if all work cannot be conducted outside of nesting season, a project-specific Nesting Bird Management Plan can be prepared to determine suitable buffers. Therefore, with

implementation of Mitigation Measure BIO-6, the Proposed Project is not anticipated to interfere substantially with the movement of any native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

**No Impact.** The Project Site does not contain trees and consists primarily of native shrubs with a low-lying understory of native and nonnative herbaceous species. As such, implementation of the Proposed Project would not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. No impacts are identified or are anticipated, and no mitigation measures are required.

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?

**Less than Significant.** As demonstrated by the CDFW's California Natural Community Conservation Plans map (April 2019), the Proposed Project is not located within a Natural Community Conservation Plans/Habitat Conservation Plans area. The Project Site is located within the Community of Lucerne Valley which has adopted the following goals related to conservation:

- Goal LV/CO 1. Conserve and protect the unique environmental features of Lucerne Valley, including native wildlife, vegetation, and scenic vistas.
- Goal LV/CO 2. Protect agricultural lands form the effects of non-agricultural development.

The Proposed Project is a conditionally acceptable use within the LV/AG-40 zone. Therefore, with adherence to the goals outlined by the Lucerne Valley Community Plan, the Proposed Project is not anticipated to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

#### Golden Eagle

- BIO-1 A pre-activity survey shall be performed to verify the continued absence of Golden Eagles in the area of operations whenever operations extend into a previously undisturbed area.
- BIO-2 If Golden Eagles are found during any surveys, the County shall avoid material removal or stockpiling until cleared by a qualified biologist to resume activity.

#### Desert Tortoise and Burrowing Owl

- BIO-3 A qualified biologist shall provide an Environmental Awareness Presentation to operations workers on an as needed basis.
- BIO-4 A qualified biologist shall conduct a pre-sweep survey of any areas slated for new land disturbance.
- BIO-5 A biological monitor shall be present during initial land disturbing activities in areas of new land disturbance.

#### **Nesting Birds**

BIO-6 Preconstruction Nesting Bird Surveys shall take place prior to new land disturbing activities that fall within the bird nesting season (April 15 – August 31). The nesting bird surveys would serve to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the biologist has determined the young birds have successfully fledged and the nest is inactive.

### **Biological Resources Impact Conclusions:**

Possible significant adverse impacts have been identified or anticipated and therefore Mitigation Measures BIO-1 through BIO-6 are required to reduce these impacts to a level below significant.

### 5. CULTURAL RESOURCES

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:					
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?		Х		
b)	Cause a substantial adverse change I the significance of an archaeological resource pursuant to §15064.5?		Х		
c)	Disturb any human remains, including those interred outside of formal cemeteries?		Х		

(Check if project is located in the Cultural 

overlays or cite results of cultural resource review)

# **Environmental Setting**

In September 2019, CRM TECH prepared a Historical/Archaeological Resources Survey Report for the Proposed Project (available at the County offices for review). CRM TECH notes that the survey area, which includes APNs 0451-022-04, 0452-041-64, and 0464-171-01, lies on the southern rim of the Mojave Desert, to the north of the San Bernardino Mountains, and at the eastern base of Granite Mountain. In accordance with the report, CRM TECH received historical/archaeological resources records search results from San Bernardino County Archaeologist Jesse Yorck, M.A., who conducted the records search on December 20, 2018, at the South-Central Coastal Information Center (SCCIC), California State University, Fullerton. Additionally, CRM TECH reviewed published literature in local and regional history, historical maps, and aerial photographs of the Lucerne Valley area; and on March 27, 2019, CRM TECH carried out a field survey.

### **Impact Analysis**

a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

Less than Significant with Mitigation Incorporated. The SCCIC records search results identified seven previously completed cultural resources studies within the one-mile scope of the records search, including a 2005 survey that covered a narrow strip of the survey area along Cove Road. Twelve historical/archaeological sites and eight isolates have been recorded within a one-mile radius, however, because none of the sites or isolates were found within or in the immediate vicinity of the survey area, CRM TECH concluded that no further consideration is required.

Historical sources consulted for this study suggest that the Project Site is relatively low in sensitivity for cultural resources from the historic period. In the mid-1850s, when the U.S. government conducted the first systematic land survey in the vicinity, no man-made features were observed in or near the survey area. By the turn of the century, a road following roughly the alignment of present-day Cove Road had been established across the project location, leading to the settlement of Rabbit Springs to the southeast. The current alignment of Cove Road dates at least to the 1940s-1950s. Other than the presence of the road, the desert landscape in the survey area remained largely unchanged until sometime between 1969 and 1995, when the borrow pit operations began along the southwestern side of Cove Road. Since then, no major changes in land use have been noted in or near the survey area.

As stated, on March 27, 2019, CRM TECH field director Daniel Ballester and project archaeologist Michael Richards and Hunter O'Donnell carried out the field survey. The survey was completed at an intensive level by walking a series of parallel north-south and east-west transects spaced 15 meters apart. In this way, the entire

survey area was systematically and carefully examined for any evidence of human activities dating to the prehistoric or historic period.

During the field survey, a previously unknown archaeological site of late-historic-period origin was recorded in the central portion of the survey area and temporarily designated 3449-1H. The site is a large historic-period refuse scatter located in a drainage and consisting of four concentrations of mostly domestic trash and automobile parts. Other than Site 3449-1H, the only feature of prehistoric or historical origin encountered in the survey area is Cove Road, which is known to have been in place along its current alignment since at least the 1940s-1950s. An asphalt-paved two-lane highway with soft shoulders, the road is of standard design and construction, and its current configuration and appearance reflect the results of constant maintenance and repeated upgrading over the years. As a result, the road does not exhibit any distinctively historical character. As a working component of the modern transportation infrastructure, Cove Road shows little potential for any historic significance and requires no further consideration.

Representing the results of incidental trash dumping by local residents, Site 3449-1H demonstrates no identifiable associations with any persons or events of recognized historic significance, nor any other special merits. Furthermore, the common refuse items found at the site show little potential to yield any important archaeological data pertaining to the 1950s-1960s, a period that is very well documented in historical literature as well as popular culture. Based on these considerations, CRM TECH concludes that Site 3449-1H does not appear to meet any of the criteria for listing in the California Register of Historical Resources, and thus does not qualify as a "historical resource". Since no other potential "historical resources" were encountered, CRM TECH further concludes that no "historical resources" are known to exist within or adjacent to the Project Site. Although CRM TECH concludes that no "historical resources" will be impacted by the Proposed Project, the possibility of discovering a significant unanticipated find remains. As such, Mitigation Measure CR-1, defined below, shall be implemented to ensure that less than significant impacts to historical and/or archaeological resources occur.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less Than Significant with Mitigation Incorporated. See response to (a), above.

c) Disturb any human remains, including those interred outside of formal cemeteries?

**Less than Significant with Mitigation Incorporated.** Mining activities could potentially disturb human remains interred outside of a formal cemetery. Thus, the potential exists that human remains may be unearthed during implementation of the Proposed Project. Therefore, Mitigation Measure CR-2, defined below, shall be implemented to ensure that less than significant impacts regarding human remains occur.

### **Mitigation Measures:**

- CR-1 If historical/archaeological resources are encountered during ground-disturbing activities, work in the immediate area shall cease and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service [NPS] 1983) shall be contacted immediately to evaluate the find(s). If the discovery proves to be significant under CEQA, additional work such as data recovery excavation may be warranted and will be reported to the County.
- CR-2 Should human remains and/or cremations be encountered during any earthmoving activities, all work shall stop immediately in the area in which the find(s) are present (suggested 100-ft radius

area around the remains and project personnel will be excluded from the area and no photographs will be permitted), and the County of San Bernardino Coroner will be notified. The County of San Bernardino and the Project Proponent shall also be called and informed of the discovery. The Coroner will determine if the bones are historic/archaeological or a modern legal case. The Coroner will immediately contact the Native American Heritage Commission (NAHC) in the event that remains are determined to be human and of Native American origin, in accordance with California Public Resources Code Section 5097.98.

All discovered human remains shall be treated with respect and dignity. California state law (California Health & Safety Code 7050.5) and federal law and regulations ([Archaeological Resources Protection Act (ARPA) 16 USC 470 & 43 CFR 7], [Native American Graves Protection & Repatriation Act (NAGPRA) 25 USC 3001 & 43 CFR 10] and [Public Lands, Interior 43 CFR 8365.1-7]) require a defined protocol if human remains are discovered in the State of California regardless if the remains are modern or archaeological.

### **Cultural Resources Impact Conclusions:**

Possible significant adverse impacts have been identified or anticipated and therefore Mitigation Measures CR-1 and CR-2 are required as conditions of project approval to reduce these impacts to a level below significant.

### 6. ENERGY

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?			Х	
b)	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				Х

# **Environmental Setting**

California is one of the lowest per capita energy users in the United States, ranked 48th in the nation, due to its energy efficiency programs and mild climate (United States Energy Information Administration [EIA] 2018). California consumed 292,039 gigawatt-hours (GWh) of electricity and 2,110,829 million cubic feet of natural gas in 2017 (California Energy Commission [CEC] 2019; EIA 2018). In addition, Californians consume approximately 18.9 billion gallons of motor vehicle fuels per year (Federal Highway Administration 2019). The single largest end-use sector for energy consumption in California is transportation (39.8 percent), followed by industry (23.7 percent), commercial (18.9 percent), and residential (17.7 percent) (EIA 2018).

Most of California's electricity is generated in-state with approximately 30 percent imported from the Northwest and Southwest in 2017. In addition, approximately 30 percent of California's electricity supply comes from renewable energy sources such as wind, solar photovoltaic, geothermal, and biomass (CEC 2018). Adopted on September 10, 2018, SB 100 accelerates the State's Renewables Portfolio Standards Program by requiring electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

To reduce statewide vehicle emissions, California requires that all motorists use California Reformulated Gasoline, which is sourced almost exclusively from in-state refineries. Gasoline is the most used transportation fuel in California with 15.5 billion gallons sold in 2017 and is used by light-duty cars, pickup trucks, and sport utility vehicles (California Department of Tax and Fee Administration 2018). Diesel is the second most used fuel in California with 4.2 billion gallons sold in 2015 and is used primarily by heavy duty-trucks, delivery vehicles, buses, trains, ships, boats and barges, farm equipment, and heavy-duty construction and military vehicles (CEC 2016). Both gasoline and diesel are primarily petroleum-based, and their consumption releases greenhouse gas (GHG) emissions, including CO2 and NOX. The transportation sector is the single largest source of GHG emissions in California, accounting for 41 percent of all inventoried emissions in 2016 (California Air Resources Board [CARB] 2018).

## Building Energy Efficiency Standards

The California Energy Conservation and Development Commission (California Energy Commission) adopted Title 24, Part 6, of the California Code of Regulations; energy Conservation Standards for new residential and nonresidential buildings in June 1977 and standards are updated every three years. Title 24 ensures building designs conserve energy by requiring the use of new energy efficiency technologies and methods into new developments. Currently, the California Energy Commission (CEC) Title 24 2016 Building Energy Efficiency Standards are in effect; however, the updated 2019 Building Energy Efficiency Standards will take effect on January 1, 2020. The 2019 Building Energy Efficiency Standards states that nonresidential buildings will use about 30 percent less energy compared to the 2016 standards due mainly to lighting upgrades.

#### Senate Bill 350

Senate Bill (SB) 350 (de Leon) was signed into law in October 2015 and established new clean energy, clean air, and greenhouse gas reduction goals for 2030. SB 350 establishes periodic increases to the California Renewables Portfolio Standard (RPS) Program with the target to increase the amount of electricity generated per year from eligible renewable energy resources to an amount that equals at least 33% of the total electricity sold annually to retail customers, by December 31, 2020. The SB 350 specifically calls for the quantities of eligible renewable energy resources to be procured for all other compliance periods reflecting reasonable progress in each of the intervening years to ensure that the procurement of electricity products from eligible renewable energy resources achieves 40 percent by December 31, 2024, 45 percent by December 31, 2027, and 50 percent by December 31, 2030.

#### Senate Bill 100

Senate Bill 100 (SB 100) was signed into law September 2018 and increased the goal of the California RPS Program to achieve at least 50 percent renewable resources by 2026, 60 percent renewable resources by 2030, and 100 percent renewable resources by 2045. SB 100 also includes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California enduse customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

### **Impact Analysis**

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?

Less Than Significant. The Proposed Project is anticipated to produce truck traffic at a rate of about 50 loads per year based on street-legal 20 cubic yard trucks and DPW project demand. The Proposed Project will provide construction material to various roads, culverts, and other DPW sites in the region, thereby reducing the energy and fuel consumption that would occur if material was transported from more distant material sources. Therefore, the Proposed Project is not anticipated to result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy sources during project operation. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

**No Impact.** As stated above, the Proposed Project is anticipated to produce truck traffic at a rate of about 50 loads per year based on street-legal 20 cubic yard trucks and DPW project demand. As such, the minimal number of trips anticipated to be produced by the Proposed Project is considered negligible. Additionally, the Proposed Project would not require implementation of new or expanded electric power or natural gas facilities. Therefore, the Proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. No impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Energy Impact Conclusions:**

No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

### 7. GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury death involving?				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.			Х	
ii. Strong seismic ground shaking?			Х	
iii. Seismic-related ground failure, including liquefaction?				Х
iv. Landslides?				Х
b) Result in substantial soil erosion or the loss of topsoil?			Х	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?			х	
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				Х
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?				Х
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		Х		

(Check if project is located in the Geologic Hazards ☐ or Paleontological Resources Overlay District ☐):

#### **Environmental Setting**

In September 2019, CRM TECH prepared a Paleontological Resources Assessment Report and Paleontological Resources Management and Monitoring Plan for the Proposed Project (available at the County offices for review). As stated by CRM TECH, the Project Site is located within the Mojave Desert geomorphic province of southeastern California. The landscape in the area features a relatively high-elevation desert with scattered, isolated mountains and numerous broad, shallow basins, some with dry lakebeds at the low points. The southernmost and westernmost portions of the project area are characterized by a hillside landscape dotted with granitic outcrops, and the northernmost portion lies on the dry lakebed of Lucerne Lake. These portions are roughly delineated by the course of Cove Road. Further to the southwest, the project area begins to slope steeply upward into the Granite Mountain.

### **Impact Analysis**

- a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
  - i. Rupture of a known earthquake fault, as delineated on the most recent Alquist Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.
  - ii. Strong seismic ground shaking?
  - iii. Seismic related ground failure, including liquefaction?
  - iv. Landslides?
- i) Less than Significant. The Project Site is located adjacent to an Alquist Priolo Earthquake Fault Zone as demonstrated by San Bernardino County Geologic Hazard Overlay Map FI01 C Lucerne Valley. The fault is known specifically has the Helendale section of the Helendale-South Lockhart Fault Zone. Although the Project Site is located adjacent to an Alquist Priolo Earthquake Fault Zone, the site does not contain habitable structures and no such structures are proposed. As such, implementation of mining activities is not anticipated to expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death following rupture of a known earthquake fault. Therefore, no significant adverse impacts are identified or anticipated, and no mitigation measures are required.
- ii) **Less Than Significant**. Seismic ground shaking is influenced by the proximity of the site to an earthquake fault, the intensity of the seismic event, and the underlying soil composition. Additionally, the Proposed Project does not include construction of habitable structures or permanent facilities with foundations that could fail as a result of strong seismic ground shaking. As such, no significant adverse impacts are identified or anticipated, and no mitigation measures are required.
- iii) **No Impact**. The Project Site is not located in an area susceptible to liquefaction as demonstrated by San Bernardino County Geologic Hazard Overlay Map FI01 C Lucerne Valley. Therefore, no impact is identified or anticipated, and no mitigation measures are required.
- iv) **No Impact**. The Project Site is not located in an area susceptible to landslides as demonstrated by San Bernardino County Geologic Hazard Overlay Map FI01 C Lucerne Valley. Therefore, no impact is identified or anticipated, and no mitigation measures are required.
- b) Result in substantial soil erosion or the loss of topsoil?

**Less than Significant.** The Project Proponent is required to comply with Statewide NPDES and preparing and implementing a SWPPP including applicable BMPs. The control of drainage, erosion, and sedimentation of the mine site will primarily be conveyed into a storm water detention basin and with implementing the following primary BMPs as applicable:

- Limiting surface disturbance to the minimum area required for active operations;
- Monitoring erosion on slopes and implementation of one or more soil stabilization practices as applicable
  for the site such as: earthen berms or dikes; silt fence; fiber rolls; straw bales; gravel bags; sediment
  basin(s); and straw mulch.

- Stabilizing disturbed areas through grading slopes to 3H:1V; and
- After project completion final revegetation by seeding or hydro-seeding with native species.

Final revegetation will be used for the long-term control of erosion. Furthermore, access points and mined surfaces will be water sprayed as necessary to reduce wind erosion during operations. With implementation of a SWPPP and associated BMPs, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?

Less than Significant. The Project Site is not located in an area susceptible to landslides or liquefaction as demonstrated by San Bernardino County Geologic Hazard Overlay Map FI01 C – Lucerne Valley. Although the Project Site's susceptibility to lateral spreading and subsidence is unknown at this time, reclamation of the mine will be undertaken at the completion of mining operations. Any over-steepened slopes will be backfilled or recontoured to 3H:1V. Fill material will be excess material pushed up onto slopes to create 3H:1V. The fill will be compacted by tracking the dozer over the slope to achieve necessary compaction consistent with final end use of DWP material maintenance and storage yard. Furthermore, the Proposed Project does not include construction of habitable structures or permanent facilities; therefore, implementation would not expose people or structures to substantial risks due to unstable soil. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

**No Impact**. The Proposed Project does not include construction of habitable structures or permanent facilities; therefore, implementation would not expose people or structures to substantial risks due to expansive soils. No impacts are identified or are anticipated, and no mitigation measures are required.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

**No Impact.** Septic tanks and/or alternative wastewater systems are not proposed as part of the Proposed Project. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant. In accordance with the Paleontological Resources Assessment Report and Paleontological Resources Management and Monitoring Plan, CRM TECH obtained and reviewed a records searches provided by the Western Science Center (WSC) in Hemet, the Natural History Museum of Los Angeles County (NHMLAC) in Los Angeles, and the San Bernardino County Museum (SBCM) in Redlands. Additionally, in conjunction with the records searches, CRM TECH pursued a literature review on the project vicinity which included analysis of topographic, geologic, and soil maps of the Lucerne Valley area. Furthermore, on March 27, 2019, CRM TECH carried out a field survey of the Project Site which included examination of soil types on-site, verification of geologic formations, and search for indications of paleontological remains.

As stated by CRM TECH, the geologic maps show the surface sediments in the northeastern portion of the project area, where no borrow pit activities are proposed, to be Holocene-age lacustrine deposits, which rest atop sediments of similar origin but of Pleistocene age. In the area where borrow pit activities are being proposed, generally to the south of Cove Road, the surface geology consists of granitic rocks at higher elevations in the

southwest portion of the project area and Holocene-age alluvium of alluvial fan origin on the relatively level terrain in the middle portion.

The granitic rocks in the Granite Mountain, being igneous in origin, have no potential to contain any fossil remains. The alluvial soils are relatively low in potential, in comparison with lacustrine or marine sediments, for the preservation of fossil materials, as animals perishing on an alluvial fan normally become food for other animals. Any bone material left behind tends to be broken and scattered on a sunny surface and is not easily preserved. Much of the deposition on an alluvial fan is by sheet wash, and this is not a good setting for the rapid burial of remains left on the surface. However, during times of flash flooding, organisms can be trapped in flowing waters and rapidly buried as the flow ceases. In these cases, the entire carcass can be preserved. Additionally, alluvial fans tend to be made up of coarse-grained materials that are not the conducive for preserving fossil remains. The sediments are generally coarser near the source and decrease in coarseness further away. In the project vicinity, the alluvial fan sediments are very close to the source.

To the northeast, the alluvial fan sediments tend to underlie and interfinger with the lakebed sediments. In these areas, the potential for fossilization of both land animals, aquatic animals, and aquatic and land-based plants increases significantly. The lake would have supported aquatic life and waterfowl as well as habitat for land animals which could have become mired in the mud and therefore would have provided a better environment for fossil preservation. However, the lakebed sediments, mainly clays and silts, would not be good as aggregate materials, which is the intended purpose of the Proposed Project.

Based on the research performed by CRM TECH, the granitic rocks in the southwestern portion of the project area were determined to be very low in sensitivity for paleontological remains. The Holocene-age lacustrine deposits on the surface in the northeastern portion of the project area are also considered low in paleontological sensitivity, but the Pleistocene-age lacustrine deposits at depth are high in sensitivity. In the middle portion of the project area, where the existing borrow pit activities are concentrated, the Holocene-age alluvial soils at and near the ground surface are similarly considered to be low in paleontological sensitivity, but the older, finergrained alluvial sediments underneath are highly sensitive for significant, nonrenewable paleontological resources if they are of sufficient age. Sources place the project location in an area of active erosion and deposition through an alluvial plain and into the Lucerne Dry Lake. The surface alluvium lies close to its source, namely the decomposing granitic bedrock of the Granite Mountain, and likely forms a relatively thick Holocene sedimentation. However, the exact depth of this coarse-grained, low-sensitivity Holocene sedimentation is currently unknown.

As the objective of the borrow pit operations is to obtain coarse-grained aggregate materials from the surface and near-surface deposit, current project plans call for a horizontal progress of excavations from the middle portion of the project area into the slopes to the southwest instead of vertical excavations into the deeper sediments. As long as the borrow pit activities do not extend into the older, finer-grained alluvial sediments occurring at depth in the middle portion of the project area, the project will have a low potential to impact significant, nonrenewable paleontological resources, and no monitoring will be necessary.

In order to prevent inadvertent impacts on paleontological resources, CRM TECH recommends that all ground disturbances be strictly limited to the granitic rocks in the southwestern portion of the project area and the coarse-grained Holocene alluvium on and near the surface in the middle portion, and that the finer-grained sediments underneath be avoided whenever they are exposed. If the project plans change in the future and the complete avoidance of the finer-grained sediments at depth is no longer possible, an updated paleontological resources management and monitoring plan, including some level of paleontological monitoring and/or periodic field inspection by qualified personnel, will need to be designed and implemented in accordance with the extent of impacts anticipated in this potentially fossiliferous formation. With implementation of CRM TECH's recommendation, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### **Mitigation Measure:**

GS-1: In order to prevent inadvertent impacts on paleontological resources, all ground disturbances shall be limited to the southwestern portion of the project area as shown in the limits of mining activities. If the project plans change an updated paleontological resources management and monitoring plan, including some level of paleontological monitoring and/or periodic field inspection by qualified personnel, will need to be designed and implemented in accordance with the extent of impacts anticipated in this potentially fossiliferous formation.

### **Geology and Soils Impact Conclusions:**

No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

### 8. GREENHOUSE GAS EMISSIONS

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:					
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			Х	
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			Х	

### **Background**

According to CEQA Guidelines section 15064.4, when making a determination of the significance of greenhouse gas emissions, the "lead agency shall have discretion to determine, in the context of a particular project, whether to (1) quantity greenhouse gas emissions resulting from a project and/or (2) rely on a qualitative analysis or performance based standards. Moreover, CEQA Guidelines section 15064.7(c) provides that "a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts" on the condition that "the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

### San Bernardino County GHG Reduction Plan

In September 2011, the County adopted a Greenhouse Gas Emissions (GHG) Reduction Plan (September 2011) (GHG Plan). The GHG Plan presents a comprehensive set of actions to reduce the County's internal and external GHG emissions to 15% below current levels (2007 levels) by 2020, consistent with the AB 32 Scoping Plan. GHG emissions impacts are assessed through the GHG Development Review Process (DRP) by applying appropriate reduction requirements as part of the discretionary approval of new development projects. Through its development review process, the County will implement CEQA requiring new development projects to quantify project GHG emissions and adopt feasible mitigation to reduce project emissions below a level of significance. A review standard of 3,000 metric tons of CO<sub>2</sub> equivalent (MTCO<sub>2</sub>e) per year is used to identify projects that require the use of Screening Tables or a project-specific technical analysis to quantify and mitigate project emissions. Note that the MDAQMD has an annual threshold of 100,000 tons of Carbon Dioxide equivalent (CO<sub>2</sub>e) per year.

### **Impact Analysis**

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

**Less Than Significant.** Per CEQA guidelines, new project emissions are treated as standard emissions, and air quality impacts are evaluated for significance on an air basin or even at a neighborhood level. Greenhouse gas emissions are treated differently, in that the perspective is global, not local. Therefore, emissions for certain types of projects might not necessarily be considered as new emissions if the project is primarily population driven. Many gases make up the group of pollutants that are believed to contribute to global climate change. However, three gases are currently evaluated carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O). SCAQMD provides guidance methods and/or Emission Factors. MDAQMD allows the use of this methodology.

A threshold of 3,000 MTCO<sub>2</sub>e per year has been adopted by the County as potentially significant to global warming. Utilizing the SCAQMD's Off-Road Mobile Source Emission Factors (2019), annual operation GHG emissions amount to approximately 1.58 MTCO<sub>2</sub>e per day or 578.49 MTCO<sub>2</sub>e per year based on a worst case of 4 hours/day operation on up to 365 days per year (see Table 4).

Table 4
Greenhouse Gas Emissions

Equipment	CO <sub>2</sub>	CH₄ <sup>*</sup>		
Loader (lbs/day)	436	0.03		
Water Truck (lbs/day)	488	0.02		
Excavator (lbs/day)	480	0.03		
Dozer (lbs/day)	956	0.08		
Dump/Haul Trucks (lbs/day)	1,128	0.07		
Total Per Year (MTCO <sub>2</sub> e)	577.48	1.01		
MTCO₂e per Year	578	.49		
County Threshold (MTCO <sub>2</sub> e)	3,000			
Significant	No			

Emission Sources: SCAQMD Off-Road Mobile Source Emission Factors (Scenario Year 2020) Note: Assumes 365 working days/year.

As demonstrated, operations would not exceed the County's GHG thresholds. Therefore, the Proposed Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### **Required Conditions**

The project emissions are less than significant; however, the applicant will be required to implement GHG reduction performance standards. The GHG reducing performance standards were developed by the County to improve the energy efficiency, water conservation, vehicle trip reduction potential, and other GHG reducing impacts from all new development approved within the unincorporated portions of San Bernardino County. As such, the following Performance Standards establish the minimum level of compliance that development must meet to assist in meeting the 2020 GHG reduction target identified in the in the County GHG Emissions Reduction Plan. These Performance Standards apply to all Projects, including those that emit less than 3,000 MTCO2e per year, and will be included as Conditions of Approval for development projects.

The following are the Performance Standards (Conditions of Approval) that are applicable to the Project:

- 1. The "developer" shall submit for review and obtain approval from County Planning of a signed letter agreeing to include as a condition of all construction contracts/subcontracts requirements to reduce GHG emissions and submitting documentation of compliance. The developer/construction contractors shall do the following:
  - a) Select construction equipment based on low GHG emissions factors and high-energy efficiency.

<sup>\*</sup>CH<sub>4</sub> has a Global Warming Potential of 28 as provided by IPCC's 2013 Working Group I

- b) All construction equipment engines shall be properly tuned and maintained in accordance with the manufacturers specifications prior to arriving on site and throughout construction duration.
- c) All construction equipment (including electric generators) shall be shut off by work crews when not in use and shall not idle for more than 5 minutes.
- b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

**Less Than Significant.** See response to (a), above.

### **Mitigation Measures:**

N/A

# **Greenhouse Gas Emissions Impact Conclusions:**

No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

### 9. HAZARDS AND HAZARDOUS MATERIALS

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Wo	ould the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			х	
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			Х	
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				Х
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?				Х
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 for people residing or working in the project area?			Х	
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				Х
g)	Expose people or structures, either directly or indirectly, to a significant risk loss, injury or death involving wildland fires?				Х

#### **Environmental Setting**

The Project Site is located south of Cove Road between Banta Road and Baker Road, within the community of Lucerne Valley. The general project vicinity consists of rural housing and undeveloped open space.

#### **Impact Analysis**

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

**Less Than Significant.** There will be no imported waste materials or chemicals brought to the Project Site besides fuel and equipment maintenance fluids during active mining periods. Maintenance and fueling will be conducted by a mobile maintenance truck if needed and BMPs will be implemented. All used fluids will be removed from the equipment and from the site following standard regulations. No fuel or used fluids will be stored on-site.

Furthermore, mined material will be loaded directly into trucks for transport to DWP Sites. No crushing or screening or any process plant facilities are utilized on-site. Therefore, there is no need for on-site diesel-powered electricity or commercial power. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant. As stated above, no fluids and no fuel tanks will be placed on-site. Furthermore, the Proposed Project does not include blasting and, therefore, no explosives will be used or stored on-site. As such, the Proposed Project is not anticipated to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

**No Impact.** The school located nearest to the Project Site is Lucerne Valley Elementary School, which is located approximately 2.5 miles southeast of the Project Site. Furthermore, no schools are known to be proposed within one-quarter mile of the Project Site. Therefore, the Proposed Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within on-quarter mile of an existing or proposed school. No impacts are identified or are anticipated, and no mitigation measures are required.

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?

**No Impact.** The Project Site was not found on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 by the California Department of Toxic Substances Control's EnviroStor data management system as reviewed on August 29, 2019. The operator would comply with all applicable federal and state safety rules and regulations regarding hazardous materials. Therefore, no significant adverse impacts are identified or anticipated, and no mitigation measures are required.

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 for people residing or working in the project area?

Less than Significant. According to San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is within Airport Safety Review Area 4 (AR4). As described by the San Bernardino County Development Code, AR4 includes the low altitude/high speed corridors designed for military use. Therefore, the Project Proponent shall adhere to the Review Procedures outlined by Section 82.09.050 of the San Bernardino County Development Code. Furthermore, the Proposed Project does not include construction of habitable structures or permanent facilities and, therefore, the Proposed Project would not result in a safety hazard for people residing or working in the project area. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

**No Impact.** Activities associated with the Proposed Project would not impede existing emergency response plans for the Project Site and/or other land uses in the project vicinity. Vehicles and stationary equipment would be staged off public roads and would not block emergency access routes. Therefore, implementation of the Proposed Project would not impair implementation of, or physically interfere with, an adopted emergency

response plan or emergency evacuation plan. No impacts are identified or are anticipated, and no mitigation measures would occur.

g) Expose people or structure, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

**No Impact.** According to San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is not within a Fire Safety Area. Additionally, the Proposed Project does not include construction of habitable structures or permanent facilities and, therefore, implementation would not expose people or structures to a significant risk of loss, injury or death involving wildland fires. No impacts are identified or are anticipated, and no mitigation measures are required.

### **Mitigation Measure:**

N/A

### **Hazards and Hazardous Materials Impact Conclusions:**

No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

### 10. HYDROLOGY AND WATER QUALITY

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:						
a)	require	e any water quality standards or waste discharge ements or otherwise substantially degrade surface or dwater quality?				Х
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				Х	
c)	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?				Х	
	l.	Result in substantial erosion or siltation on – or off-site;			Х	
	II.	Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on – or off-site;			Х	
	III.	Create or contribute runoff water which would exceed the capacity of the existing or planned stormwater drainage systems or provide substantial additional resources of polluted runoff; or			Х	
d)		d hazard, tsunami, or seiche zones, risk release of nts due to project inundation?				Х

### **Environmental Setting**

Hydrologically, the Project Site is within the Lucerne Lake hydrologic unit of the Colorado River hydrologic region. This watershed is not tributary to the ocean or any other water body; rather, all water either infiltrates into the groundwater basin, evaporates, or flows toward the dry lakebed of Lucerne Lake located to the northwest of the Project Site. All flow channels on-site are intermittent or ephemeral and likely only receive stream flow during and following significant rain events. Typical of arid regions, the area experiences short-duration, high-intensity rainfall storm events producing potentially high rates of runoff when the initial infiltration rates are exceeded. During these periods the small, incised washes become conduits for water flow.

#### **Impact Analysis**

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

**No Impact.** Groundwater is anticipated to flow northwest and west generally mimicking surface topography. According to State Water Board Groundwater Ambient Assessment Program (GAMA), groundwater is recorded at a depth greater than 350 feet below ground surface (bgs). Mining of the site is will be conducted from approximately 2,890 to 2,930 feet amsl in Pit 1A with a 20-foot deep pit to 2,910 to 2,930 feet amsl in Pit 1B. Pit 2 will be mined from approximately 2,900 feet amsl to 2,930 feet amsl with a pit depth of approximately 30 feet.

As such, the Proposed Project would not impact the water table. Furthermore, no wastewater will be generated as a result of operations. As such, the Proposed Project will not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less Than Significant. Water use on-site will be utilized to minimize dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 4,000 gallons of water a day (6 to 20 days a year) may be used for dust suppression activities. The 4,000-gallon water truck will fill at Mojave Water Agency designated hydrant. It is not anticipated that there will be any excess water from the wetting-down procedure; therefore, no recycling is required or planned. The County has a memorandum of understanding (MOU) with the Mojave Water Agency. As such, the Proposed Project is not anticipated to substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable management of the Mojave basin. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

- c) 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?
  - Result in substantial erosion or siltation on or off-site;
  - II. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off-site:
  - III. Create or contribute runoff water which would exceed the capacity of the existing or planned stormwater drainage systems or provide substantial additional resources of polluted runoff; or
    - Less than Significant. The final slopes will gently slope at 3H:1V upward 30 feet from the north to south. There are no drainage or run-off channels that will be affected by the mining. Principally, only direct precipitation will affect the site from the hillside slopes. The pits are designed with a natural grade towards the northwest to collect any run-off from the slopes in that area that will act as a sediment or retention basin (percolation basin). The slopes are designed at very gentle 3H:1V that would reduce possible slope erosion and runoff channeling down the slopes. In addition, a 6.5-acre storm water detention basin will be developed to collect any run-off that may move off the slopes and other portions of the site. There will be no run-off off away from the site. All precipitation will be collected within the pit's or the 6.5-acre storm water detention basin and allowed to evaporate or percolate.

During the course of mining and the final design of the 3H:1V slope contouring, some erosion may occur during heavy rainfall on the slopes. Erosion sediment caused by rainfall will be retained at the bottom of the pit and/or detention basin and rills or channels backfilled. Any water retained within the pit and/or detention basin will not impact adjacent properties or local road due to its containment.

After each major storm event, any final slopes will be visually inspected to determine if any substantial erosion is evident such as sheet, rill or gully erosion. Erosion and sedimentation will be controlled by utilizing applicable BMPs which will be constructed and modified based on actual conditions as operations progress. In addition, a SWPPP would be implemented to control runoff and sedimentation from project disturbance. Furthermore, final revegetation will be used for the long-term control of erosion. Access points and mined surfaces will be water sprayed as necessary to reduce wind erosion during operations. Therefore, the Proposed Project will not

substantially alter the existing drainage pattern that would result in substantial erosion or siltation or runoff on- or off-site. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

- II. Less than Significant. The Proposed Project will not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off-site. There are no drainage or run-off channels that will be affected by the mining. Principally only direct precipitation will affect the site from the hillside slopes. The pits are designed with a natural grade towards the northwest to collect any run-off from the slopes in that area that will act as a sediment or retention basin (percolation basin). The slopes are designed at very gentle 3H:1V that would reduce possible slope erosion and runoff channeling down the slopes. In addition, a 6.5-acre storm water detention basin will be developed to collect any run-off that may move off the slopes and other portions of the site. There will be no run-off away from the site. All precipitation will be collected within the pit's detention basin or the 6.5-acre storm water detention basin and allowed to evaporate or percolate. As such, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.
- III. Less than Significant. As stated above, the slopes are designed at very gentle 3H:1V that would reduce possible slope erosion and runoff channeling down the slopes. There will be no runoff away from the site. All precipitation will be collected within the pit's detention basin or the 6.5-acre storm water detention basin and allowed to evaporate or percolate. Therefore, the Proposed Project is not anticipated to create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.
- d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

**No Impact.** As shown by San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is not located within Flood Plain Safety (FP) Overlay District or within a dam inundation area. Tsunamis are large waves generated in open bodies of water by fault displacement of major ground movement. Due to the inland location of the Project Site, tsunamis are not considered to be a risk. Seiches are standing waves generated in enclosed bodies of water in response to ground shaking. The Project Site is not located in the immediate vicinity of a known large body of water or water storage facility and therefore impacts from potential seiches are not anticipated. Therefore, the Proposed Project is not anticipated to risk release of pollutants due to project inundation. No impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Hydrology and Water Quality Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### 11. LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Physically divide an established community?				Х
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				Х

### **Environmental Setting**

The Project Site is located in the desert region of western San Bernardino County within the unincorporated community of Lucerne Valley within the Lucerne Valley/Agriculture – 40 Acre Minimum (LV/AG-40) land use zoning district.

### **Impact Analysis**

a) Physically divide an established community?

**No Impact.** The Proposed Project is a conditionally acceptable use within the LV/AG-40 zone as demonstrated by Table 82-4, Allowed Land Uses and Permit Requirements for Agricultural and Resource Management Land Use Zoning Districts, of the San Bernardino County Development Code. The general project vicinity consists of undeveloped open space. Therefore, the Proposed Project would not physically divide an established community. No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

**No Impact.** Cove Borrow Pit has been mined since the 1960s to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to remove up to 1,000 cubic yards (cy) of fill material a year. No changes from existing conditions are proposed. The Proposed Project would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project as the project is consistent with all applicable land use policies and regulations of the No impacts are identified or are anticipated, and no mitigation measures are required.

# **Mitigation Measures:**

N/A

#### **Land Use and Planning Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### 12. MINERAL RESOURCES

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:					
1	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?			Х	
, í	Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?			Х	

### **Environmental Setting**

The Proposed Project is located within the unincorporated community of Lucerne Valley within the County of San Bernardino. As stated by the Lucerne Valley Community Plan, Lucerne Valley is well known for its mining activities including one of the largest limestone producing districts in the United States. The mining industry dominates the local economy, with limestone mining a significant presence on the northern slopes of the San Bernardino Mountains.

## **Impact Analysis**

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

**Less than Significant.** The Proposed Project is an application to provide general fill material for various San Bernardino County DPW Sites for annual maintenance and/or emergency repair due to storm events. As stated, the Proposed Project is a conditionally acceptable use within the LV/AG-40 zone. Therefore, the Proposed Project would result in adding to the availability of a known mineral resource that is of value to the region and residents. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

Less than Significant. The Project Site is not designated as a mineral resource recovery site as delineated on a local general plan, specific plan, or other land use plan. Additionally, as stated, the Proposed Project is a conditionally acceptable use within the LV/AG-40 zone. The Proposed Project is an application to provide general fill material for various San Bernardino County DPW Sites for annual maintenance and/or emergency repair due to storm events and, therefore, implementation of the Proposed Project would result in a beneficial effect regarding availability of mineral resources. As such, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

### **Mineral Resources Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### 13. NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			Х	
b) Generation of excessive groundborne vibration of groundborne noise levels?			Х	
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?			Х	

### **Environmental Setting**

The Project Site is located within the community of Lucerne Valley, at the western edge of the Mojave Desert. The site is bordered in all directions by vacant land.

### **Impact Analysis**

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant. The Project Site is within a primarily undeveloped area consisting of open space. The nearest sensitive receptors are the single-family residences located approximately 0.5-mile south of the Project Site. Noise will only be produced from the on-site equipment and will be minimal. Operations would be required to conform to applicable noise control regulations as outlined in Section 83.01.080, Noise, of the San Bernardino County Development Code. Therefore, with adherence to the Development Code, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Generation of excessive groundborne vibration of groundborne noise levels?

Less than Significant. As stated, the Project Site is within a primarily undeveloped area consisting of open space. The nearest sensitive receptors are the single-family residences located approximately 0.5-mile south of the Project Site. Groundborne vibration will be produced from the on-site equipment, however, operations would be required to conform to applicable vibration control regulations as outlined in Section 83.01.090, Vibration, of the San Bernardino County Development Code. Therefore, with adherence to the Development Code, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

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?

**Less than Significant.** According to San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is within Airport Safety Review Area 4 (AR4). As described by the San Bernardino County

Development Code, AR4 includes the low altitude/high speed corridors designed for military use. Therefore, the Project Proponent shall adhere to the Review Procedures outlined by Section 82.09.050 of the San Bernardino County Development Code. Furthermore, the airport located nearest to the Project Site is Holiday Ranch Airport, which is approximately eight miles to the northwest. Therefore, the Project Site is located more than two miles of a public airport or public use airport. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### **Mitigation Measures:**

N/A

### **Noise Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### 14. POPULATION AND HOUSING

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:					
a)	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			Х	
b)	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				Х

### **Environmental Setting**

The Project Site is located within the community of Lucerne Valley, at the western edge of the Mojave Desert. The site is bordered in all directions by vacant land.

## **Impact Analysis**

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

**Less than Significant.** According to the U.S. Bureau of Labor Statistics, the unemployment rate in the Riverside/San Bernardino/Ontario region as of July 2019 was 4.6%. Based on the availability of a local work force, it is expected that the employment generated by the Proposed Project would be filled from the local area and would not result in substantial growth that was not already anticipated by the San Bernardino County General Plan. Furthermore, the Proposed Project is a conditionally acceptable use within the LV/AG-40 zone and therefore implementation of the Proposed Project would not induce substantial growth in the area. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

**No Impact.** The Proposed Project would not displace substantial numbers of existing people or housing units or require the construction of replacement housing. No impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Population and Housing Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### 15. PUBLIC SERVICES

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	impacts altered altered of cause s accepta	the project result in substantial adverse physical associated with the provision of new or physically governmental facilities, need for new or physically governmental facilities, the construction of which could ignificant environmental impacts, in order to maintain ble service ratios, response times or other ance objectives for any of the public services:				
	i.	Fire protection?			Х	
	ii.	Police protection?			Х	
	iii.	Schools?			Х	
	iv.	Recreation/Parks?			Х	
	V.	Other public facilities?			Х	

### **Environmental Setting**

The Project Site is located within the community of Lucerne Valley, at the western edge of the Mojave Desert. The site is bordered in all directions by vacant land.

### **Impact Analysis**

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: Fire protection, Police protection, Schools, Recreation/Parks, Other public facilities?

### i. Fire Protection

Less than Significant. According to San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is not within a Fire Safety Area. Additionally, as stated by the Lucerne Valley Community Plan, fire threat at the Project Site is considered moderate. Fire protection services are provided by Lucerne Valley Fire Protection District in the plan area and San Bernardino County Fire Department (SBCFD) provides administration and support for the fire district. The closest SBCFD Station to the Project Site is Fire Station 8 located at 33269 Old Woman Springs Road, approximately three miles southeast of the Project Site. The Proposed Project is a conditionally acceptable use within the LV/AG-40 zone and therefore would result in the requirement of fire protection services that is already anticipated by the County. As such, the Proposed Project would receive adequate fire protection services and would not result in the need for new or physically altered fire protection facilities. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### ii. Police Protection

**Less than Significant.** Police services will be provided to the Project Site through a contractual agreement with the San Bernardino County Sheriff's Department. The station located nearest to the Project Site is the San Bernardino County Sheriff Lucerne Valley Substation located approximately 2.5 miles southeast of the site. The Proposed Project is a conditionally acceptable use within the LV/AG-

40 zone and therefore would result in the requirement of police protection that is already anticipated by the County. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### iii. Schools

Less than Significant. The Proposed Project would not create a direct demand for public school services as the Proposed Project does not include any type of residential use or other land use that may induce population growth. It is expected that the employment generated by the Proposed Project would be filled from the local area and would not result in substantial growth that was not already anticipated by the County. As such, the development would not generate any new school-aged children requiring public education. Furthermore, the Proposed Project is a conditionally acceptable use within the LV/AG-40 zone and therefore would not change the requirement of public schools that is already anticipated by the County. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### iv. Parks

Less than Significant. The Proposed Project does not include any type of residential use or other land use that may generate a population that would increase the use of existing neighborhood and regional parks or other recreational facilities in the vicinity. Employees are anticipated to come from the local labor pool and implementation of the Proposed Project would not result in an increased use or substantial physical deterioration of an existing neighborhood or regional park. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### v. Other Public Facilities

**Less than Significant.** The Proposed Project is not expected to result in a demand for other public facilities/services, such as libraries, community recreation centers, and/or animal shelter. Implementation of the Proposed Project would not adversely affect other public facilities or require the construction of new or modified facilities. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

### **Public Services Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

### 16. RECREATION

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				Х
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				Х

### **Environmental Setting**

The Project Site is located within the community of Lucerne Valley, at the western edge of the Mojave Desert. The site is bordered in all directions by vacant land.

# Impact Analysis

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

**No Impact.** No residential use or other land use that may generate a population that would increase the use of existing neighborhood and regional parks or other recreational facilities in the vicinity is proposed. Accordingly, implementation of the Proposed Project would not result in the increased use or substantial physical deterioration of an existing neighborhood or regional park. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

**No Impact.** The Proposed Project does not include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Recreation Impact Conclusions:**

No impacts are identified or are anticipated, and no mitigation measures are required.

### 17. TRANSPORTATION

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Wou	Would the project:				
É	Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			Х	
,	Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			Х	
i	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?				Х
d) I	Result in inadequate emergency access?				Х

### **Environmental Setting**

The Project Site is located south of Cove Road between Banta Road and Baker Road, within the community of Lucerne Valley. Access to the site will be from existing Cove Road, a paved public road.

## **Impact Analysis**

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

**Less than Significant**. Cove Borrow Pit has been mined since the 1960s to provide general fill material for various DPW Sites for annual maintenance and/or emergencies. DPW is proposing to remove up to 1,000 cubic yards (cy) of fill material a year (approximately 50 loads per year based on street-legal 20 cubic yard trucks). No changes from existing conditions are proposed. Access to the site will continue to be from Cove Road in the north portion of the community of Lucerne Valley. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

**Less Than Significant.** As stated above, the Proposed Project is anticipated to produce truck traffic at a rate of about 50 loads per year based on street-legal 20 cubic yard trucks and DPW project demand. Furthermore, the Proposed Project will provide construction material to various roads, culverts, and other DPW sites in the region, thereby reducing the transportation costs and fuel usage that would occur if material was transported from more distant material sources. Therefore, in accordance with CEQA Guidelines section 15064.3, subdivision (b), implementation of the Proposed Project would allow the local need for construction material to be met while producing a minimal number of vehicles miles traveled. No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?

**No Impact**. The Proposed Project would not affect public streets. The Proposed Project does not involve any road development or design features that could substantially increase hazards on public roads, or changes in

the transportation of materials on public roads. Access to the site will be from existing Cove Road. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

d) Result in inadequate emergency access?

**No Impact**. Activities associated with the Proposed Project would not impede existing emergency response plans for the Project Site and/or other land uses in the project vicinity. Vehicles and stationary equipment would be staged off public roads and would not block emergency access routes. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

### **Mitigation Measures:**

N/A

### <u>Transportation Impact Conclusions:</u>

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

# 18. TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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, lace, 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:				
a) Listed or eligible for listing in California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or		Х		
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.		Х		

## **Regulatory Setting**

Effective July 1, 2015, Assembly Bill 52 (AB 52) amended CEQA to require that: 1) a lead agency provide notice to those California Native American tribes that requested notice of projects proposed by the lead agency; and 2) for any tribe that responded to the notice within 30 days of receipt with a request for consultation, the lead agency must consult with the tribe. Topics that may be addressed during consultation include Tribal Cultural Resources (TCRs), the potential significance of project impacts, type of environmental document that should be prepared, and possible mitigation measures and project alternatives.

Pursuant to AB 52, Section 21073 of the Public Resources Code defines California Native American tribes as "a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of the Statutes of 2004." This includes both federally and non-federally recognized tribes. Section 21074(a) of the Public Resource Code defines TCRs for the purpose of CEQA as:

- Sites, features, places, cultural landscapes (geographically defined in terms of the size and scope), sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
  - a. included or determined to be eligible for inclusion in the California Register of Historical Resources; and/or
  - b. included in a local register of historical resources as defined in subdivision (k) of Section 5020.1; and/or
  - c. a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1. In applying the criteria set forth in subdivision (c) of Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American tribe.

Because criteria a and b also meet the definition of a historical resource under CEQA, a TCR may also require additional consideration as a historical resource. TCRs may or may not exhibit archaeological, cultural, or physical indicators.

Recognizing that California tribes are experts in their tribal cultural resources and heritage, AB 52 requires that CEQA lead agencies provide tribes that requested notification an opportunity to consult at the commencement of the CEQA process to identify TCRs. Furthermore, because a significant effect on a TCR is considered a significant impact on the environment under CEQA, consultation is used to develop appropriate avoidance, impact minimization, and mitigation measures.

### **Summary of AB 52 Consultation**

On October 22, 2018, the County of San Bernardino initiated environmental review under CEQA for the Proposed Project. On October 22, 2018, the County of San Bernardino Department of Public Works sent project notification letters to the following California Native American tribes, which had previously submitted general consultation request letters pursuant to 21080.3.1(d) of the Public Resources Code:

- San Manuel Band of Mission Indians
- Twentynine Palms Band of Mission Indians

Each recipient was provided a brief description of the Proposed Project and its location, the lead agency contact information, and a notification that the tribe has 30 days to request consultation. The 30-day response period concluded on November 22, 2018.

Below is a summary of responses received by the County of San Bernardino Department of Public Works and subsequent consultation actions and results:

- Twenty-Nine Palms Band of Mission Indians: November 20, 2018; No known Tribal cultural resources on site. Tribe requested copies of cultural resources report prior to concluding consultation. Cultural Resources report forwarded to Tribe on November 4, 2019. Consultation closed.
- San Manuel Band of Mission Indians: November 19, 2018; No known Tribal cultural resources on site.
   Tribe requested incidental find language be added to conditions of approval. Copies of cultural resources report were also forwarded to the Tribe on November 4, 2019. Consultation closed.

San Manuel Band of Mission Indians requested incidental finds measures be added to the Proposed Project. Specific measure language was agreed upon on November 19, 2018 (Mitigation Measures TCR-1 through TCR-4 below) and consultation was closed.

# **Environmental Setting**

In accordance with the Historical/Archaeological Resources Survey Report, San Bernardino County Archaeologist Jesse Yorck, M.A., provided CRM TECH with a written response to the County's inquiry from the State of California Native American Heritage Commission (NAHC), which includes the results of a records search in the commission's Sacred Lands File. After reviewing the NAHC's response, CRM TECH contacted a total of five Native American representatives in the region in writing on March 22, 2019, for additional information on potential Native American cultural resources in the project vicinity.

### **Impact Analysis**

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

**Less than Significant with Mitigation Incorporated.** As concluded in Section 5(a), above, the Historical/Archaeological Resources Survey Report concluded that no "historical resources" are anticipated to be impacted by the Proposed Project. However, the possibility of discovering a significant unanticipated find remains and therefore Mitigation Measure CR-1 and Mitigation Measure CR-2 shall be implemented to ensure that less than significant impacts to potential historical resources occur. No additional mitigation measures are required.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1?

### Less Than Significant With Mitigation Incorporated.

No TCRs were identified within the project area during AB 52 consultation. The Proposed Project would not result in significant impacts to known TCRs. However, as a result of AB 52 consultation the Tribes identified a potential for the discovery of unknown TCRs during construction, which may result in a significant impact if such resources are found and affected. Impacts to unknown TCRs would be less than significant with the implementation of Mitigation Measures TCR-1 through TCR-4.

As stated above, CRM TECH submitted a written request to the State of California NAHC for a records search in the commission's Sacred Lands File. Following the NAHC's recommendations and previously established protocol, CRM TECH further contacted a total of five tribal organizations in writing on March 22, 2019, for additional information on potential Native American cultural resources in the project vicinity. For some of the tribes, the designated spokespersons on cultural resources issues were contacted in lieu of the individuals recommended by the NAHC, as requested by tribal government staff in the past. The five tribal representatives contacted during this study are listed below:

- Matthew Leivas, Director, Chemehuevi Cultural Center, Chemehuevi Indian Tribe;
- Travis Armstrong, Tribal Historic Preservation Officer, Morongo Band of Mission Indians;
- Donna Yocum, Chairperson, San Fernando Band of Mission Indians;
- Lee Clauss, Director of Cultural Resources, San Manuel Band of Mission Indians;
- Mark Cochrane, Chairperson, Serrano Nation of Mission Indians.

As of the time of preparation of the CRM TECH report, two of the five tribes have responded to the inquiry. In an e-mail dated March 26, 2019, Jessica Mauck, Cultural Resources Analyst for the San Manuel Band, stated that the tribe has concluded its consultation on the Proposed Project with the County in light of the existing ground disturbance within the survey area. Nevertheless, the tribe has requested a copy of CRM TECH's report upon completion. In an e-mail sent on April 24, 2019, Travis Armstrong indicated that the Morongo Band has no additional information to provide at this time but may provide other information to the County during future consultations.

As stated in Section 5, above, the Proposed Project will not cause a substantial adverse change in the significance or integrity of Site 36-004276, the only "historical resource" or potential "historical resources" encountered within or partially within the Project Site, and the geoarchaeological analysis suggests that the project location is low in sensitivity for archaeological remains of prehistoric or early historic origin in buried deposits. No significant adverse impacts are identified or anticipated, and no mitigation measures are required.

### **Mitigation Measures**

TCR-1

Appropriate consulting Tribe(s) shall be contacted, as detailed in CR-1, of any pre-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input within 48 hours with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2018), a cultural resource Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with consulting Tribe(s), and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents consulting Tribe(s) for the remainder of the project, should Tribe(s) elect to place a monitor on-site at the Tribe's cost.

As necessary, and in accordance with Project-Specific consultations conducted with the NAHC and various Tribal entities in association with AB52, SB18, and/or any other legal guidelines relating to Native American consultations, the specific language noted in CR-1 and CR-2 may change to reflect Project-Specific needs and requirements.

- If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to CR-2 and State Health and Safety Code §7050.5 and that code shall be enforced for the duration of the project.
- Only the NAHC Designated MLD Tribal representative shall make all future decisions regarding the treatment of human remains of Native American origin within the response times outlined below. The MLD shall determine the disposition and treatment of Native American human remains and any associated grave goods following Native American Graves Protection and Repatriation Act (NAGPRA) protocols, and what constitutes "appropriate dignity" as that term is used in the applicable statutes and in the Tribe's customs and traditions.

The MLD or his/her designee shall complete an inspection and provide written recommendations to the DPW and the landowner (if different than the DPW) within forty-eight (48) hours of being granted access to the site. If the descendant does not make recommendations within 48 hours, the landowner shall re-inter the remains in a secure area of the property where there will be no further disturbance. Should the landowner not accept the descendant's recommendations, either the owner or the MLD may request mediation by NAHC. According to the California Health and Safety Code, six (6) or more human burials at one (1) location constitute a cemetery (Section 8100), and willful disturbance of human remains in a cemetery is a felony (Section 7052).

Any and all archaeological/cultural documents as related to documented tribal cultural resources created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be disseminated to appropriate consulting Tribe(s) in the form of an un-redacted report (containing DPR forms). The Lead Agency and/or applicant shall, in good faith, consult with the appropriate Tribe(s) until construction completion of the project and completion of any measures imposed to protect resources.

### **Tribal Cultural Resources Conclusions**

With implementation of the above listed measures, less than significant impacts would occur.

### 19. UTILITIES AND SERVICE SYSTEMS

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:					
a)	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				Х
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				Х
c)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				Х
d)	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				Х
e)	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				Х

## **Environmental Setting**

The Project Site is located within the community of Lucerne Valley, at the western edge of the Mojave Desert. The site is bordered in all directions by vacant land.

#### **Impact Analysis**

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

**No Impact.** The Proposed Project would not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities. Therefore, no impacts are identified or are anticipated, and no mitigation measures are required.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

**No Impact.** As stated, water use on-site will be utilized to minimize dust generation. A water truck will be used for wetting-down material and roads during mining activities and for wetting-down haul trucks prior to site departure. Approximately 4,000 gallons of water a day (6 to 20 days a year) may be used for dust suppression activities. The 4,000-gallon water truck will fill at Mojave Water Agency designated hydrant. The County has a memorandum of understanding (MOU) with the Mojave Water Agency. Furthermore, bottled water will be

provided to employees as needed. Therefore, no new or expanded entitlements would be needed. No impacts are identified or are anticipated, and no mitigation measures are required.

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

**No Impact.** See response to (a), above. Furthermore, portable toilets will be used on-site and serviced by a commercial vendor. No impacts are identified or are anticipated, and no mitigation measures are required.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

**No Impact.** All refuse on-site will be disposed into approved trash bins and removed by a commercial vendor when as necessary. No impacts are identified or are anticipated, and no mitigation measures are required.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

**No Impact.** See response to (d), above.

### **Mitigation Measures**

N/A

# **Utilities and Service Systems Impact Conclusions**

No impacts are identified or are anticipated, and no mitigation measures are required.

#### 20. WILDFIRE

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	cated in or near state responsibility areas or lands classified very high fire hazard severity zones, would the project?				
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?				Х
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?				Х
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?				Х
d)	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?				Х

# **Environmental Setting**

The Project Site is located within the community of Lucerne Valley, at the western edge of the Mojave Desert. The site is bordered in all directions by vacant land.

# **Impact Analysis**

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

**No Impact.** Activities associated with the Proposed Project would not impede existing emergency response plans for the Project Site and/or other land uses in the project vicinity. Vehicles and stationary equipment would be staged off public roads and would not block emergency access routes. Therefore, implementation of the Proposed Project would not substantially impair an adopted emergency response plan or emergency evacuation plan. No impacts are identified or are anticipated, and no mitigation measures would occur.

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?

**No Impact.** According to San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is not within a Fire Safety Area. Additionally, the Proposed Project does not include construction of habitable structures or permanent facilities and, therefore, implementation would not expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. No impacts are identified or are anticipated, and no mitigation measures are required.

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?

**No Impact.** The Project Site is located south of Cove Road between Banta Road and Baker Road. Access to the site will be from existing Cove Road. As stated in Section 19(a), the Proposed Project will not require the construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities. Therefore, the Proposed Project is not anticipated to require the installation or maintenance of associated infrastructure that may exacerbate fire risk or that may result in temporary ongoing impacts to the environment. No impacts are identified or are anticipated, and no mitigation measures are required.

d) 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?

**No Impact.** As identified by San Bernardino County Geologic Hazard Overlay Map FI01 C – Lucerne Valley, the Project Site is not located in an area likely to become unstable as a result of on- or off-site landslide. As shown by San Bernardino County Hazard Overlay Map FI01 B – Lucerne Valley, the Project Site is not located within Flood Plain Safety (FP) Overlay District or within a dam inundation area. Additionally, the Project Site is not within a Fire Safety Area as delineated by Hazard Overlay Map FI01 B. Furthermore, the Proposed Project does not include construction of habitable structures or permanent facilities and, therefore, implementation would not expose people or structures to significant risks. No impacts are identified or are anticipated, and no mitigation measures are required.

#### **Mitigation Measures:**

N/A

#### **Wildfire Impact Conclusions:**

No significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

# 21. MANDATORY FINDINGS OF SIGNIFICANCE

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 or eliminate important examples of the major periods of California history or prehistory?			Х	
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)?			Х	
c)	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			Х	

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 or eliminate important examples of the major periods of California history or prehistory?

Less than Significant Impact. The results of the Initial Study show that there are potentially significant impacts to Biological Resources and Cultural Resources. These impacts will be reduced to less than significant levels after incorporation of mitigation measures and compliance with existing rules and regulations. Therefore, the Proposed Project will not substantially degrade the quality of the environment and impacts to habitat, wildlife populations, plant and animal communities, rare and endangered species or important examples of the major periods of California history or prehistory; no additional mitigation is warranted.

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)?

Less Than Significant Impact. Cumulative impacts are defined as two or more individual affects that, when considered together, are considerable or that compound or increase other environmental impacts. The cumulative impact from several projects is the change in the environment that results from the incremental impact of the development when added to the impacts of other closely related past, present, and reasonably foreseeable or probable future developments. Cumulative impacts can result from individually minor, but collectively significant, developments taking place over a period. The CEQA Guidelines, Section 15130 (a) and (b), states:

(a) Cumulative impacts shall be discussed when the project's incremental effect is cumulatively considerable.

(b) The discussion of cumulative impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not provide as great detail as is provided of the effects attributable to the project. The discussion should be guided by the standards of practicality and reasonableness.

Impacts associated with the Proposed Project would not be considered individually adverse or unfavorable. The Proposed Project is a conditionally acceptable use identified in and previously evaluated as part of the San Bernardino County General Plan and EIR. No cumulative impacts are identified or are anticipated, and no mitigation measures are required.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

**Less Than Significant.** Implementation of the existing rules and regulations, conditions from permit approvals and the mitigation measures identified in this Initial Study Checklist would result in a less than significant impact. There would be no substantial adverse effects on human beings, either directly or indirectly. No additional mitigation measures are required.

# **SECTION 5 – SUMMARY OF MITIGATION MEASURES**

The following mitigation measures were identified to reduce impacts to less than significant:

#### **BIOLOGICAL RESOURCES:**

#### Golden Eagle

- BIO-1 A pre-activity survey shall be performed to verify the continued absence of Golden Eagles in the area of operations whenever operations extend into a previously undisturbed area.
- BIO-2 If Golden Eagles are found during any surveys, the County shall avoid material removal or stockpiling until cleared by a qualified biologist to resume activity.

#### Desert Tortoise and Burrowing Owl

- BIO-3 A qualified biologist shall provide an Environmental Awareness Presentation to operations workers on an as needed basis.
- BIO-4 A qualified biologist shall conduct a pre-sweep survey of any areas slated for new land disturbance.
- BIO-5 A biological monitor shall be present during initial land disturbing activities.

#### **Nesting Birds**

BIO-6 Preconstruction Nesting Bird Surveys shall take place prior to new land disturbing activities that fall within the bird nesting season (April 15 – August 31). The nesting bird surveys would serve to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved nowork buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the biologist has determined the young birds have successfully fledged and the nest is inactive.

#### **CULTURAL RESOURCES:**

- CR-1 If historical/archaeological resources are encountered during ground-disturbing activities, work in the immediate area shall cease and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service [NPS] 1983) shall be contacted immediately to evaluate the find(s). If the discovery proves to be significant under CEQA, additional work such as data recovery excavation may be warranted and will be reported to the County.
- CR-2 Should human remains and/or cremations be encountered during any earthmoving activities, all work shall stop immediately in the area in which the find(s) are present (suggested 100-ft radius area around the remains and project personnel will be excluded from the area and no photographs will be permitted), and the County of San Bernardino Coroner will be notified. The County of San Bernardino and the Project Proponent shall also be called and informed of the discovery. The Coroner will determine if the bones are historic/archaeological or a modern legal case. The Coroner will immediately contact the Native

American Heritage Commission (NAHC) in the event that remains are determined to be human and of Native American origin, in accordance with California Public Resources Code Section 5097.98.

All discovered human remains shall be treated with respect and dignity. California state law (California Health & Safety Code 7050.5) and federal law and regulations ([Archaeological Resources Protection Act (ARPA) 16 USC 470 & 43 CFR 7], [Native American Graves Protection & Repatriation Act (NAGPRA) 25 USC 3001 & 43 CFR 10] and [Public Lands, Interior 43 CFR 8365.1-7]) require a defined protocol if human remains are discovered in the State of California regardless if the remains are modern or archaeological.

#### **GEOLOGY AND SOILS:**

GS-1: In order to prevent inadvertent impacts on paleontological resources, all ground disturbances shall be limited to the southwestern portion of the project area as shown in the limits of mining activities. If the project plans change an updated paleontological resources management and monitoring plan, including some level of paleontological monitoring and/or periodic field inspection by qualified personnel, will need to be designed and implemented in accordance with the extent of impacts anticipated in this potentially fossiliferous formation.

#### TRIBAL CULTURAL RESOURCES:

TCR-1 Appropriate consulting Tribe(s) shall be contacted, as detailed in CR-1, of any pre-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input within 48 hours with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2018), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with consulting Tribe(s), and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents consulting Tribe(s) for the remainder of the project, should Tribe(s) elect to place a monitor on-site at the Tribe's cost.

As necessary, and in accordance with Project-Specific consultations conducted with the NAHC and various Tribal entities in association with AB52, SB18, and/or any other legal guidelines relating to Native American consultations, the specific language noted in CR-1 and CR-2 may change to reflect Project-Specific needs and requirements.

- TCR-2 If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to CR-2 and State Health and Safety Code §7050.5 and that code shall be enforced for the duration of the project.
- TCR-3 Only the NAHC Designated MLD Tribal representative shall make all future decisions regarding the treatment of human remains of Native American origin within the response times outlined below. The MLD shall determine the disposition and treatment of Native American human remains and any associated grave goods following Native American Graves Protection and Repatriation Act (NAGPRA) protocols, and what constitutes "appropriate dignity" as that term is used in the applicable statutes and in the Tribe's customs and traditions.

The MLD or his/her designee shall complete an inspection and provide written recommendations to the DPW and the landowner (if different than the DPW) within forty-eight (48) hours of being granted access

to the site. If the descendant does not make recommendations within 48 hours, the landowner shall reinter the remains in a secure area of the property where there will be no further disturbance. Should the landowner not accept the descendant's recommendations, either the owner or the MLD may request mediation by NAHC. According to the California Health and Safety Code, six (6) or more human burials at one (1) location constitute a cemetery (Section 8100), and willful disturbance of human remains in a cemetery is a felony (Section 7052).

TCR-4 Any and all archaeological/cultural documents as related to documented tribal cultural resources created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be disseminated to appropriate consulting Tribe(s) in the form of an un-redacted report (containing DPR forms). The Lead Agency and/or applicant shall, in good faith, consult with the appropriate Tribe(s) until construction completion of the project and completion of any measures imposed to protect resources.

#### **SECTION 6 - REFERENCES**

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- Jericho Systems Incorporated. Biological Resources Assessment. Prepared in July 2019.
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# **EXHIBIT F**

Response to Comments

July 17, 2020

Steven Valdez
Contract Planner
County of San Bernardino
385 North Arrowhead Avenue, First Floor
San Bernardino, California 92415-0187

Cove Borrow Pit - Lucerne Valley (Project)
MITIGATED NEGATIVE DECLARATION (MND)
SCH#2020069011

Dear Mr. Valdez:

The California Department of Fish and Wildlife (CDFW) received a Notice of Intent to Adopt an MND from the County of San Bernardino Department of Public Works for the Project pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.<sup>1</sup>

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

#### **CDFW ROLE**

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the State. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a **Responsible Agency** under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may

<sup>1</sup> CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 2 of 15

need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the project proponent may seek related take authorization as provided by the Fish and Game Code..

#### PROJECT DESCRIPTION SUMMARY

**Proponent:** County of San Bernardino Department of Public Works (DPW)

**Objective:** To annually provide up to 1,000 cubic yards (cy) of material for various roads, culverts, and other DPW sites for annual maintenance and/or emergency repair due to storm events on approximately 36 acres. DPW is proposing to mine 14.7 acres on the mostly undisturbed hillside slopes with maximum pit depth in Pits 1A and 1B of 20 feet and in Pit 2 of 45 feet. A 5-acre Staging Area, a 2-acre Processing Area and a 6.5-acre stormwater detention basin are also proposed.

**Location:** South of Cove Road between Banta Road and Baker Road, within the community of Lucerne Valley, approximately 10 miles east of the Town of Apple Valley. The proposed project affects 3 County owned parcels (APN: 0464-171-01; 0452-041-64; 0451-022-04). Within the County of San Bernardino, State of California, San Bernardino Meridian, Section 33,34, Township 5N, Range 1W

**Timeframe:** 100 years

# **COMMENTS AND RECOMMENDATIONS**

CDFW offers the comments and recommendations below to assist the County of San Bernardino in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the document. Based on the Project's avoidance of significant impacts on biological resources with implementation of mitigation measures, CDFW concludes that a Mitigated Negative Declaration is appropriate for the Project.

# I. Mitigation Measure or Alternative and Related Impact Shortcoming

Would the Project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by CDFW or USFWS?

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**COMMENT 1:** BIO-X, Special Status Plant Species

# Section IV, Page 29

**Issue**: The MND lacks analysis of potential impacts to special status plant species. A biological report was provided and mentioned that the habitat is "extremely diverse" and may support 20 listed or special status species, but the MND does not include measures for them or other potential special status plants. As white pygmypoppy, a rare species (4.2), has been mapped on the Project site (CNDDB, 2020; CNPS, 2020), CDFW has concerns sensitive plant species are present.

**Specific impact:** A botanical field survey to identify all plants to the taxonomic level necessary to determine rarity and listing status was not performed. The MND lacks analysis of potential impact, and avoidance, minimization, and mitigation measures for special status plant species.

Why impact would occur: Botanical field surveys should be conducted during times of year when plants are evident and identifiable (i.e. flowering or fruiting), which may warrant multiple surveys during the season to capture floristic diversity (CDFW, 2018). Habitats, such sage bush scrub, that have annual and short-lived perennial plants as major floristic components may require yearly surveys to accurately document baseline conditions for purposes of impact assessment (CDFW, 2018).

Evidence impact would be significant: Sensitive plant species are listed under CESA as threatened, or endangered, or proposed or candidates for listing; designated as rare under the Native Plant Protection Act; or plants that otherwise meet the definition of rare, threatened, or endangered species under CEQA. Plants constituting California Rare Plant Ranks 1A, 1B, 2A, and 2B generally meet the criteria of a CESA-listed species and should be considered as an endangered, rare or threatened species for the purposes of CEQA analysis. Take of any CESA-listed species is prohibited except as authorized by state law (Fish and Game Code, §§ 2080 & 2085). Fish and Game Code Sections 1900–1913 includes provisions that prohibit the take of endangered and rare plants from the wild and a salvage requirement for landowners.

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Project Description and Related Impact Shortcoming)

**Mitigation Measure 1:** 

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**To minimize significant impacts:** To ensure that Project impacts to biological resources are fully analyzed, CDFW recommends DPW require a thorough floristic-based assessment of special status plants and natural communities. The assessment should be performed by a qualified biologist following CDFW's *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW, March 2018) or most recent version.

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline=1

Note that CDFW generally considers biological field assessments for rare plants valid for a period of up to three years. Should white pygmy-poppy or other special status plants be present, CDFW recommends the inclusion of the following mitigation measure:

**MM-X:** Special Status Plant Species. Should any CESA-listed plant species be present at the Project site, the Project Proponent shall obtain an incidental take permit (ITP) for those species prior to the start of Project activities. Should white pygmy-poppy or other special status plants or natural communities be present in the Project area, a qualified biologist shall develop species specific avoidance, minimization, and mitigation measures to ensure there is no net reduction in the size or viability of the local population.

#### **COMMENT 2**: BIO-3,4,5- Desert Tortoise

# Section IV, Page 29

**Issue**: CDFW appreciates the DPW inclusion of an initial survey for desert tortoise, a threatened species. However, there is no measure in place to address avoidance, minimization, or mitigation measures should desert tortoise enter the Project site during the life of the Project.

**Specific impact**: Project activities have the potential to take desert tortoise, a CESA-listed species.

Why impact would occur: The MND does not ensure a qualified biologist, experienced in locating desert tortoise individuals in all life stages and their sign, completed the survey following CDFW approved protocols. Additionally, should desert tortoise presence be confirmed, during surveys or within the 100-year timeframe, the MND lacks avoidance, minimization and mitigation to avoid take.

**Evidence impact would be significant:** Desert tortoise is a CESA-listed species. Take (hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture,

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 5 of 15

or kill) is prohibited unless authorized by state law (Fish and Game Code, §§ 2080 & 2085).

# **Mitigation Measure 2:**

**To minimize significant impacts**: If the Project, including the Project construction or any Project-related activity during the life of the Project, results in take of CESA listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to Project implementation through an ITP. CDFW recommends adding to the following measure:

MM BIO-4: Desert Tortoise Surveys. A qualified biologist shall conduct a protocol level presence or absence survey no more than 14 days prior to initiating Project activities in accordance with the survey methodology described in U.S. Fish and Wildlife Service Desert Tortoise (Mojave Population) Field Manual. In addition, the survey shall utilize perpendicular survey routes and 100-percent visual coverage of the Project area and 50-foot buffer zone for desert tortoise and their sign. If the survey confirms absence, a qualified biological monitor shall remain on-site during all Project activities to confirm desert tortoise do not enter the Project site. If the survey confirms presence, the Project Proponent shall obtain an ITP for desert tortoise prior to the start of Project activities. If the biological monitor during the life of the Project encounters a desert tortoise, work shall be suspended, and the Project Proponent shall obtain an ITP for the species prior to the restarting Project activities.

Focused surveys should be conducted for desert tortoises following this approved CDFW protocol:

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=174633&inline

- CDFW recommends DPW condition the environmental document to include on-site worker education about any sensitive wildlife species that may occur in the area, not just on a "as needed basis".
- Additionally, CDFW requests to be contacted immediately should sensitive wildlife species be present in the Project area.

**COMMENT 3**: BIO-3,4,5- Burrowing Owl

# Section IV, Page 29

**Issue**: CDFW appreciates the DPW's inclusion of a mitigation measure to avoid potentially significant impacts to burrowing owls, a Species of Special Concern. CDFW has concerns BIO-4 also lacks specificity on who will perform the burrowing

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owl "pre-sweep", what type of survey will be performed, and what actions will be taken should burrowing owl presence be confirmed during the survey.

Additionally, the measure does not address avoidance, minimization, or mitigation measures.

**Specific impact**: Project-related activities have potential to take burrowing owl individuals and their nests and may result in loss of burrowing owl habitat.

**Why impact would occur:** Potentially significant impacts to burrowing owls are not mitigated to the extent feasible.

**Evidence impact would be significant**: Take of individual burrowing owls and their nests is defined by Fish and Game Code section 86, and prohibited by sections 3503, 3503.5 and 3513. Take is defined in Fish and Game Code Section 86 as "hunt, pursue, catch, capture or kill, or attempt to hunt, pursue, catch, capture or kill." Burrowing owls are dependent on burrows at all times of the year for survival and/or reproduction, evicting them from nesting, roosting, and satellite burrows may lead to indirect impacts or take. Loss of access to burrows will likely result in varying levels of increased stress on burrowing owls and could depress reproduction, increase predation, increase energetic costs, and introduce risks posed by having to find and compete for available burrows (CDFG, 2012). Eviction of burrowing owls is a potentially significant impact under CEQA.

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Mitigation Measure or Alternative and Related Impact Shortcoming)

#### **Mitigation Measure 3:**

**To minimize significant impacts**: CDFW recommends separating burrowing owls from desert tortoises in BIO-3,4,5, and including the following modifications to measures in the environmental document:

MM BIO-4: Pre-construction Burrowing Owl Survey. Burrowing owl surveys shall be conducted by a qualified biologist at least 14 days prior to any Project activities, at any time of year. Surveys shall be completed following the recommendations and guidelines provided within the Staff Report on Burrowing Owl Mitigation (CDFG, March 2012) or most recent version by a qualified biologist. If an active burrowing owl burrow is detected within any Project disturbance area, or within a 500-foot buffer of the disturbance area, a 300- foot radius buffer zone surrounding the burrow shall be flagged, and no impacts to soils or vegetation or noise levels above 65 dBA shall be permitted while the burrow remains active or occupied. Disturbance-free buffers may be modified based on site-specific conditions in consultation with

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CDFW. The qualified biologist shall monitor active burrows daily and will increase buffer sizes as needed if owls show signs of disturbance. If active burrowing owl burrows are located within any work area and impact cannot be avoided, a qualified biologist shall submit a burrowing owl exclusion plan to CDFW for review and approval. The burrowing owl exclusion plan shall include permanent compensatory mitigation consistent with the recommendations in the Staff Report on Burrowing Owl Mitigation such that the habitat acreage, number of burrows and burrowing owls impacted are replaced. Passive relocation shall take place outside the nesting season (1 February to 31 August).

**COMMENT 3:** BIO-X, Mohave Ground Squirrel (MGS)

# Section IV A, Page 27

**Issue**: CDFW suggests reassessing habitat suitability for MGS because the site was found to be within the geographic range of MGS. CDFW recommends mitigation for MGS be provided.

**Specific impact:** The Project is within the geographic range of Mohave ground squirrel.

Why impact would occur: MGS are known to have historically occupied areas in the Lucence Valley region and are state listed as threatened, thereby giving species protection under CESA. MGS is found in several habitat types including sage bush scrub, a dominant habitat type identified on the project site. Should MGS presence be confirmed, the measure lacks avoidance, minimization and mitigation to avoid take.

**Evidence impact would be significant:** CDFW has discretionary authority over activities that could result in the "take" of any species listed as candidate, threatened, or endangered, pursuant to CESA. CDFW considers adverse impacts to CESA-listed species, for the purposes of CEQA, to be significant without mitigation. Take of any CESA-listed species is prohibited except as authorized by state law (Fish and Game Code, §§ 2080 & 2085).

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Mitigation Measure or Alternative and Related Impact Shortcoming)

# **Mitigation Measure 3:**

**To minimize significant impacts:** CDFW recommends County of San Bernardino assume presence of MGS and condition the environmental document to include preconstruction surveys for MGS.

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MM BIO-X: Pre-Construction Mohave Ground Squirrel Survey. Pre-construction surveys following the *Mohave Ground Squirrel Survey Guidelines* (CDFG, 2010) or most recent version shall be performed by a qualified biologist authorized by a Memorandum of Understanding issued by CDFW. The pre-construction surveys shall cover the Project Area and a 50-foot buffer zone. Should Mohave ground squirrel presence be confirmed during the survey, the Project Proponent shall obtain an ITP for Mohave ground squirrel prior to the start of Project activities. CDFW shall be notified if Mohave ground squirrel presence is confirmed during the pre-construction survey.

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83975&inline

**MM BIO-X:** Mohave Ground Squirrel Observations. If a Project, including Project construction or any Project-related activity during the life of the Project, results in take of CESA-listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to Project implementation. This may include an ITP. Information on how to obtain an ITP can be found at <a href="https://wildlife.ca.gov/Conservation/CESA/Permitting/Incidental-Take-Permits">https://wildlife.ca.gov/Conservation/CESA/Permitting/Incidental-Take-Permits</a>.

Would the Project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS; or have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

**COMMENT 4:** Need for a Lake and Streambed Alteration Agreement

# Section IV B, Page 28

**Issue**: The environmental document does not mitigate for the presence of ephemeral streambeds and Lucence Lake within the Project Area.

**Specific impact:** Aerial imagery confirms multiple streambeds/dry washes and Lucence Lake is already being impacted by the Project activities and will be further impacted by the expansion.

Why impact would occur: The environmental document lacks avoidance, minimization, and mitigation measures for the biological resource. Project activities describe excavation of 1,000 cubic yards annually over a 100-year period. Use of equipment in the area and the action of excavation will impact the bed, bank, and channel of the ephemeral stream, associated vegetation, as well as significantly impact the lake.

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**Evidence impact would be significant:** Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: substantially divert or obstruct the natural flow of any river, stream or lake; substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or deposit debris, waste or other materials that could pass into any river, stream or lake.

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Project Description and Related Impact Shortcoming)

#### **Mitigation Measure 4:**

**To minimize significant impacts:** Information on how to submit a Notification of Lake or Streambed Alteration can be found at <a href="https://wildlife.ca.gov/Conservation/LSA">https://wildlife.ca.gov/Conservation/LSA</a>. CDFW requests that the County of San Bernardino include the following new mitigation measure in the Final MND:

MM BIO-X: Notification of Lake and Streambed Alteration. Prior to commencement of Project activities, the Project Proponent shall submit a Notification of Lake or Streambed Alteration to CDFW's Lake and Streambed Alteration Program. Upon receipt of a complete notification and associated fees, CDFW shall determine if Project activities may substantially adversely affect existing fish and wildlife resources. The Project Proponent shall obtain a CDFW-executed Lake or Streambed Alteration Agreement, authorizing impacts to resources associated with the Project, or a letter from CDFW stating an Agreement is not required.

### II. Editorial Comments and/or Suggestions

MM-BIO-3: On-site Education. A qualified biologist shall conduct an education program for all persons employed or otherwise working on the Project site prior to performing any work on-site. The program shall consist of a presentation that includes a discussion of the biology of the habitats and species that may be present at the site. The qualified biologist shall also include as part of the education program information about the distribution and habitat needs of any special status species that may be present, legal protections for those species, penalties for violations, and mitigation measures. Education should include but not be limited to desert tortoise, burrowing owl, special status plant species, and nesting birds. Interpretation shall be provided for non-English speaking workers, and the same instruction shall be provided for any new workers prior to their performing work onsite.

**MM-X:** Escape Ramp in Trench. At the end of each work day, the Biological Monitor(s) shall place an escape ramp at each end of the open trench to allow any animals that may have become entrapped in the trench to climb out overnight. The

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 10 of 15

ramp may be constructed of either dirt fill or wood planking or other suitable material that is placed at an angle no greater than 30 degree.

#### **ENVIRONMENTAL DATA**

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form can be found at the following link: <a href="http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf">http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf</a>. The completed form can be mailed electronically to CNDDB at the following email address: <a href="mailto:CNDDB@wildlife.ca.gov">CNDDB@wildlife.ca.gov</a>. The types of information reported to CNDDB can be found at the following link: <a href="mailto:http://www.dfg.ca.gov/biogeodata/cnddb/plants\_and\_animals.asp">http://www.dfg.ca.gov/biogeodata/cnddb/plants\_and\_animals.asp</a>.

#### **FILING FEES**

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

# **CONCLUSION**

CDFW appreciates the opportunity to comment on the MND to assist the County of San Bernardino Department of Public Works in identifying and mitigating Project impacts on biological resources. Questions regarding this letter or further coordination should be directed to Julia Karo, Environmental Scientist at Julia.Karo@Wildlife.ca.gov.

Sincerely,



Scott Wilson Environmental Program Manager

ec: Office of Planning and Research, State Clearinghouse, Sacramento

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 11 of 15

#### REFERENCES

California Department of Fish and Wildlife (CDFW). 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities. Website

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline

California Department of Fish and Game (CDFG). 2012. Staff Report on Burrowing Owl Mitigation. (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline)

**ATTACHMENT 1** 

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 12 of 15

# MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

#### **PURPOSE OF THE MMRP**

The purpose of the MMRP is to ensure compliance with mitigation measures during project implementation. Mitigation measures must be implemented within the time periods indicated in the table below.

#### TABLE OF MITIGATION MEASURES

The following items are identified for each mitigation measure: Mitigation Measure, Implementation Schedule, and Responsible Party for implementing the mitigation measure. The Mitigation Measure column summarizes the mitigation requirements. The Implementation Schedule column shows the date or phase when each mitigation measure will be implemented. The Responsible Party column identifies the person or agency that is primarily responsible for implementing the mitigation measure.

Mitigation Measure	Implementation Schedule	Responsible Party
MM BIO-4: Desert Tortoise Surveys. A qualified biologist shall conduct a protocol level presence or absence survey no more than 14 days prior to initiating Project activities in accordance with procedures described in Chapter 6 of the US Fish and Wildlife Service Desert Tortoise (Mojave Population) Field Manual. In addition, the survey shall utilize perpendicular survey routes and 100-percent visual coverage of the Project area and 50-foot buffer zone for desert tortoise and their sign. If the survey confirms absence, a qualified biological monitor shall remain on-site during all Project activities to confirm desert tortoise do not enter the Project site. If the survey confirms presence, the Project Proponent shall obtain an ITP for desert tortoise prior to the start of Project activities. If the biological monitor during the life of the Project encounters a desert tortoise, work shall be suspended, and the Project Proponent shall obtain an ITP for the species prior to the restarting Project activities.	Before commencing ground- or vegetation-disturbing activities/Entire Project	Project Proponent

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 13 of 15

MM BIO-4: Pre-construction Burrowing Owl Survey. Burrowing owl surveys shall be conducted at least 14 days prior to any Project activities, at any time of year. Surveys shall be completed following the recommendations and guidelines provided within the Staff Report on Burrowing Owl Mitigation (CDFG, March 2012) or most recent version by a qualified biologist. If an active burrowing owl burrow is detected within any Project disturbance area, or within a 500-foot buffer of the disturbance area, or within a 500-foot buffer zone surrounding the burrow shall be flagged, and no impacts to soils or vegetation or noise levels above 65 dBA shall be permitted while the burrow remains active or occupied. Disturbance-free buffers may be modified based on site-specific conditions in consultation with CDFW. The qualified biologist shall monitor active burrows daily and will increase buffer sizes as needed if owls show signs of disturbance. If active burrowing owl burrows are located within any work area, a qualified biologist shall submit a burrowing owl exclusion plan to CDFW for review and approval. The burrowing owl exclusion plan shall include permanent compensatory mitigation consistent with the recommendations in the Staff Report on Burrowing Owl Mitigation such that the habitat acreage, number of burrows and burrowing owls impacted are replaced. Passive relocation shall take place outside the nesting season (1 February to 31 August).	Before commencing ground- or vegetation-disturbing activities/Entire Project	Project Proponent
MM BIO-X: Special Status Plant Species. Should any CESA-listed plant species be present at the Project site, the Project Proponent shall obtain an incidental take permit for those species prior to the start of Project activities. Should white pygmy-poppy or other special status plants or natural communities be present in the Project area, a qualified biologist shall develop species specific avoidance, minimization, and mitigation measures to ensure there is no net reduction in the size or viability of the local population.	Before commencing ground- or vegetation-disturbing activities	Project Proponent

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 14 of 15

MM-X: Escape Ramp in Trench. At the end of each work day, the Biological Monitor(s) shall place an escape ramp at each end of the open trench to allow any animals that may have become entrapped in the trench to climb out overnight. The ramp may be constructed of either dirt fill or wood planking or other suitable material that is placed at an angle no greater than 30 degree.	Entire Project	Project Proponent
MM BIO-3: On-site Education. A qualified biologist shall conduct an education program for all persons employed or otherwise working on the Project site prior to performing any work onsite. The program shall consist of a presentation that includes a discussion of the biology of the habitats and species that may be present at the site. The qualified biologist shall also include as part of the education program information about the distribution and habitat needs of any special status species that may be present, legal protections for those species, penalties for violations, and mitigation measures. Education should include but not be limited to desert tortoise, burrowing owl, special status plant species, and nesting birds. Interpretation shall be provided for non-English speaking workers, and the same instruction shall be provided for any new workers prior to their performing work on-site.	Before commencing ground- or vegetation- disturbing activities/Entire Project	Project Proponent
MM BIO-X: Pre-Construction Mohave Ground Squirrel Survey. Pre-construction surveys following the Mohave Ground Squirrel Survey Guidelines (CDFG, 2010) or most recent version shall be performed by a qualified biologist authorized by a Memorandum of Understanding issued by CDFW. The pre-construction surveys shall cover the Project Area and a 50-foot buffer zone. Should Mohave ground squirrel presence be confirmed during the survey, the Project Proponent shall obtain an ITP for Mohave ground squirrel prior to the start of Project activities. CDFW shall be notified if Mohave ground squirrel	Before commencing ground- or vegetation-disturbing activities/Entire Project	Project Proponent

Steven Valdez, Contract Planner County of San Bernardino Department of Public Works July 17, 2020 Page 15 of 15

presence is confirmed during the pre- construction survey.		
MM BIO-X: Mohave Ground Squirrel Observations. If a Project, including Project construction or any Project-related activity during the life of the Project, results in take of CESA- listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to Project implementation. This may include an ITP.	Entire Project	Project Proponent
Alteration. Prior to commencement of Project activities, the Project Proponent shall submit a Notification of Lake or Streambed Alteration to CDFW's Lake and Streambed Alteration Program. Upon receipt of a complete notification and associated fees, CDFW shall determine if Project activities may substantially adversely affect existing fish and wildlife resources. The Project Proponent shall obtain a CDFW-executed Lake or Streambed Alteration Agreement, authorizing impacts to resources associated with the Project, or a letter from CDFW stating an Agreement is not required.	Before commencing ground- or vegetation-disturbing activities	Project Proponent



August 12, 2020

Mr. Scott Wilson, Environmental Program Manager Department of Fish and Wildlife Inland Deserts Region 3602 Inland Empire Boulevard, Suite C-220 Ontario, CA 91764

Subject: Response to Initial Study/Mitigated Negative Declaration, County of San

Bernardino Department of Public Works; Cove Borrow Pit; State

Clearinghouse (SCH) No. 2020069012

Dear Mr. Wilson.

This letter is in response to the comment letter received from the Department of Fish and Wildlife, Inland Deserts Region dated July 17, 2020 concerning the Initial Study/Mitigated Negative Declaration for the Reclamation Plan Submission of "Cove Borrow Pit" which was submitted on March 19, 2020 to the San Bernardino County, Land Use Services Department. We have copied and pasted your comments followed by our response which either clarifies the question or states where the information can be found in the document.

Comment #1: BIO-X, Special Status Plant Species

Section IV, Page 29

Issue: The MND lacks analysis of potential impacts to special status plant species. A biological report was provided and mentioned that the habitat is "extremely diverse" and may support 20 listed or special status species, but the MND does not include measures for them or other potential special status plants. As white pygmypoppy, a rare species (4.2), has been mapped on the Project site (CNDDB, 2020; CNPS, 2020), CDFW has concerns sensitive plant species are present.

Specific impact: A botanical field survey to identify all plants to the taxonomic level necessary to determine rarity and listing status was not performed. The MND lacks analysis of potential impact, and avoidance, minimization, and mitigation measures for special status plant species.

Why impact would occur: Botanical field surveys should be conducted during times of year when plants are evident and identifiable (i.e. flowering or fruiting), which may warrant multiple surveys during the season to capture floristic diversity (CDFW, 2018). Habitats, such sage bush scrub, that have annual and short-lived perennial plants as major floristic components may require yearly surveys to accurately document baseline conditions for purposes of impact assessment (CDFW, 2018).

Evidence impact would be significant: Sensitive plant species are listed under CESA as threatened, or endangered, or proposed or candidates for listing; designated as rare under the Native Plant Protection Act; or plants that otherwise meet the definition of rare, threatened, or endangered species under CEQA. Plants constituting California Rare Plant Ranks 1A, 1B, 2A, and 2B generally meet the criteria of a CESA-listed species and should be considered as an endangered, rare or threatened species for the purposes of CEQA analysis. Take of any CESA-listed species is prohibited except as authorized by state law (Fish and Game Code, §§ 2080 & 2085). Fish and Game Code Sections 1900–1913 includes provisions that prohibit the take of endangered and rare plants from the wild and a salvage requirement for landowners.

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Project Description and Related Impact Shortcoming)

# Mitigation Measure 1:

To minimize significant impacts: To ensure that Project impacts to biological resources are fully analyzed, CDFW recommends DPW require a thorough floristic based assessment of special status plants and natural communities. The assessment should be performed by a qualified biologist following CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFW, March 2018) or most recent version.

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline=1

Note that CDFW generally considers biological field assessments for rare plants valid for a period of up to three years. Should any special status plants be present, CDFW recommends the inclusion of the following mitigation measure:

MM-X: Special Status Plant Species. Should any CESA-listed plant species be present at the Project site, the Project Proponent shall obtain an incidental take permit (ITP) for those species prior to the start of Project activities. Should white pygmy-poppy or other special status plants or natural communities be present in the Project area, a qualified biologist shall develop species specific avoidance, minimization, and mitigation measures to ensure there is no net reduction in the size or viability of the local population.

# Response:

A Biological Resources Assessment (BRA) and Jurisdictional Delineation for Ocotillo Burrow was prepared in July 2019 by Jericho Systems. According to the database queries 20 sensitive plant species have been documented in the Lucerne Valley, Fifteenmile Valley, Apple Valley S Valley, and White Horse Mountain USGS 7.5- minute series quadrangles. However, no State-and/or federally listed threatened or endangered species, or other sensitive species were observed on the Project site during the field surveys. No impact is anticipated.



Comment #2: BIO-3,4,5- Desert Tortoise

Section IV, Page 29

Issue: CDFW appreciates the DPW inclusion of an initial survey for desert tortoise, a threatened species. However, there is no measure in place to address avoidance, minimization, or mitigation measures should desert tortoise enter the Project site during the life of the Project.

Specific impact: Project activities have the potential to take desert tortoise, a CESA-listed species.

Why impact would occur: The MND does not ensure a qualified biologist, experienced in locating desert tortoise individuals in all life stages and their sign, completed the survey following CDFW approved protocols. Additionally, should desert tortoise presence be confirmed, during surveys or within the 100-year timeframe, the MND lacks avoidance, minimization and mitigation to avoid take.

Evidence impact would be significant: Desert tortoise is a CESA-listed species. Take (hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill) is prohibited unless authorized by state law (Fish and Game Code, §§ 2080 & 2085).

#### Mitigation Measure 2:

To minimize significant impacts: If the Project, including the Project construction or any Project-related activity during the life of the Project, results in take of CESA listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to Project implementation through an ITP. CDFW recommends adding to the following measure:

MM BIO-4: Desert Tortoise Surveys. A qualified biologist shall conduct a protocol level presence or absence survey no more than 14 days prior to initiating Project activities in accordance with the survey methodology described in U.S. Fish and Wildlife Service Desert Tortoise (Mojave Population) Field Manual. In addition, the survey shall utilize perpendicular survey routes and 100-percent visual coverage of the Project area and 50-foot buffer zone for desert tortoise and their sign. If the survey confirms absence, a qualified biological monitor shall remain on-site during all Project activities to confirm desert tortoise do not enter the Project site. If the survey confirms presence, the Project Proponent shall obtain an ITP for desert tortoise prior to the start of Project activities. If the biological monitor during the life of the Project encounters a desert tortoise, work shall be suspended, and the Project Proponent shall obtain an ITP for the species prior to the restarting Project activities.

Focused surveys should be conducted for desert tortoises following this approved CDFW protocol: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=174633&inline



- CDFW recommends DPW condition the environmental document to include on-site worker education about any sensitive wildlife species that may occur in the area, not just on a "as needed basis".
- Additionally, CDFW requests to be contacted immediately should sensitive wildlife species be present in the Project area.

#### Response:

Per the BRA, desert tortoise are documented to occur approximately 1.75 miles north of the Project site. There are no desert tortoise occurrences documented on site or directly adjacent to it. Excluding the rocky outcrop/rugged hills on the south half of the Project site, suitable habitat for desert tortoise may be present.

Per the USFWS desert tortoise Critical Habitat overlay, the project site is not within any USFWS designated desert tortoise Critical Habitat. Furthermore, the project site is not within a BLM designated Desert Wildlife Management Area (USFWS 2011). Therefore, the habitat surrounding the site would be characterized as Category 3 Habitat, per the BLM categorization of desert tortoise habitat on public lands.

The site surveys were structured, in part, to detect desert tortoise. The survey consisted of walking transects spaced approximately 10 meters apart to provide 100% visual coverage of the project site, as well as 200-, 400- and 600-meter transects when and where possible surrounding the east, north and west of the Project site. The result of the survey was that no evidence of desert tortoise was found in the survey area. No desert tortoise individuals or sign including burrows or scat were observed. Therefore, desert tortoise are currently considered absent from the Project site and adjacent areas surveyed. No impact is anticipated.

Comment #3: BIO-3,4,5- Burrowing Owl

Section IV, Page 29

Issue: CDFW appreciates the DPW's inclusion of a mitigation measure to avoid potentially significant impacts to burrowing owls, a Species of Special Concern. CDFW has concerns BIO-4 also lacks specificity on who will perform the burrowing owl "pre-sweep", what type of survey will be performed, and what actions will be taken should burrowing owl presence be confirmed during the survey.

Additionally, the measure does not address avoidance, minimization, or mitigation measures.

Specific impact: Project-related activities have potential to take burrowing owl individuals and their nests and may result in loss of burrowing owl habitat.

Why impact would occur: Potentially significant impacts to burrowing owls are not mitigated to the extent feasible.



Evidence impact would be significant: Take of individual burrowing owls and their nests is defined by Fish and Game Code section 86, and prohibited by sections 3503, 3503.5 and 3513. Take is defined in Fish and Game Code Section 86 as "hunt, pursue, catch, capture or kill, or attempt to hunt, pursue, catch, capture or kill." Burrowing owls are dependent on burrows at all times of the year for survival and/or reproduction, evicting them from nesting, roosting, and satellite burrows may lead to indirect impacts or take. Loss of access to burrows will likely result in varying levels of increased stress on burrowing owls and could depress reproduction, increase predation, increase energetic costs, and introduce risks posed by having to find and compete for available burrows (CDFG, 2012). Eviction of burrowing owls is a potentially significant impact under CEQA.

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Mitigation Measure or Alternative and Related Impact Shortcoming)

Mitigation Measure 3:

To minimize significant impacts: CDFW recommends separating burrowing owls from desert tortoises in BIO-3,4,5, and including the following modifications to measures in the environmental document:

MM BIO-4: Pre-construction Burrowing Owl Survey. Burrowing owl surveys shall be conducted by a qualified biologist at least 14 days prior to any Project activities, at any time of year. Surveys shall be completed following the recommendations and guidelines provided within the Staff Report on Burrowing Owl Mitigation (CDFG, March 2012) or most recent version by a qualified biologist. If an active burrowing owl burrow is detected within any Project disturbance area, or within a 500-foot buffer of the disturbance area, a 300- foot radius buffer zone surrounding the burrow shall be flagged, and no impacts to soils or vegetation or noise levels above 65 dBA shall be permitted while the burrow remains active or occupied. Disturbance-free buffers may be modified based on site-specific conditions in consultation with CDFW. The qualified biologist shall monitor active burrows daily and will increase buffer sizes as needed if owls show signs of disturbance. If active burrowing owl burrows are located within any work area and impact cannot be avoided, a qualified biologist shall submit a burrowing owl exclusion plan to CDFW for review and approval. The burrowing owl exclusion plan shall include permanent compensatory mitigation consistent with the recommendations in the Staff Report on Burrowing Owl Mitigation such that the habitat acreage, number of burrows and burrowing owls impacted are replaced. Passive relocation shall take place outside the nesting season (1 February to 31 August).

#### Response:

Per the BRA, BUOW are documented approximately 3 miles southeast of the Project site. There are no BUOW occurrences documented on site. The assessment survey was structured to detect BUOW. The survey consisted of walking transects spaced to provide 100% visual coverage of the project site, including an approximately 500-foot buffer area around the Project site. The result of the survey was that no evidence of BUOW was found in the survey area. No BUOW



individuals or sign including pellets, feathers or whitewash were observed. No impact is anticipated.

Comment #4: BIO-X, Mohave Ground Squirrel (MGS)

Section IV A, Page 27

Issue: CDFW suggests reassessing habitat suitability for MGS because the site was found to be within the geographic range of MGS. CDFW recommends mitigation for MGS be provided.

Specific impact: The Project is within the geographic range of Mohave ground squirrel.

Why impact would occur: MGS are known to have historically occupied areas in the Lucence Valley region and are state listed as threatened, thereby giving species protection under CESA. MGS is found in several habitat types including sage bush scrub, a dominant habitat type identified on the project site. Should MGS presence be confirmed, the measure lacks avoidance, minimization and mitigation to avoid take.

Evidence impact would be significant: CDFW has discretionary authority over activities that could result in the "take" of any species listed as candidate, threatened, or endangered, pursuant to CESA. CDFW considers adverse impacts to CESA-listed species, for the purposes of CEQA, to be significant without mitigation. Take of any CESA-listed species is prohibited except as authorized by state law (Fish and Game Code, §§ 2080 & 2085).

Recommended Potentially Feasible Mitigation Measure(s) (Regarding Mitigation Measure or Alternative and Related Impact Shortcoming)

*Mitigation Measure 3:* 

To minimize significant impacts: CDFW recommends County of San Bernardino assume presence of MGS and condition the environmental document to include preconstruction surveys for MGS.

MM BIO-X: Pre-Construction Mohave Ground Squirrel Survey. Pre-construction surveys following the Mohave Ground Squirrel Survey Guidelines (CDFG, 2010) or most recent version shall be performed by a qualified biologist authorized by a Memorandum of Understanding issued by CDFW. The pre-construction surveys shall cover the Project Area and a 50-foot buffer zone. Should Mohave ground squirrel presence be confirmed during the survey, the Project Proponent shall obtain an ITP for Mohave ground squirrel prior to the start of Project activities. CDFW shall be notified if Mohave ground squirrel presence is confirmed during the preconstruction survey. https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83975&inline

MM BIO-X: Mohave Ground Squirrel Observations. If a Project, including Project construction or any Project-related activity during the life of the Project, results in take of CESA-listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to



Project implementation. This may include an ITP. Information on how to obtain an ITP can be found at https://wildlife.ca.gov/Conservation/CESA/Permitting/Incidental-Take-Permits.

#### Response:

Per the BRA, Jericho conducted a Mohave ground squirrel habitat suitability assessment of the Project site and adjacent habitat. The habitat assessment included a pedestrian field assessment, review of reported occurrences of the MGS in the region (CNDDB 2019), and adherence to CDFW's criteria for assessing potential impacts to the Mohave ground squirrel. The criteria questions are as follows:

- Is the site within the range of the Mohave ground squirrel?;
- Is there native habitat with a relatively diverse shrub component?; and
- Is the site surrounded by development and therefore isolated from potentially occupied habitat?

An occurrence of Mohave ground squirrel is documented southeast of the Project site. This occurrence is from the 1920's. Mohave ground squirrel are thought to be extirpated east of the Interstate 15, south of Barstow and west of Highway 247. The Project site occurs outside the established current range for this species and no further discussion or investigation is warranted. No impact is anticipated.

Comment #5: Need for a Lake and Streambed Alteration Agreement

Section IV B, Page 28

Issue: The environmental document does not mitigate for the presence of ephemeral streambeds and Lucence Lake within the Project Area.

Specific impact: Aerial imagery confirms multiple streambeds/dry washes and Lucence Lake is already being impacted by the Project activities and will be further impacted by the expansion.

Why impact would occur: The environmental document lacks avoidance, minimization, and mitigation measures for the biological resource. Project activities describe excavation of 1,000 cubic yards annually over a 100-year period. Use of equipment in the area and the action of excavation will impact the bed, bank, and channel of the ephemeral stream, associated vegetation, as well as significantly impact the lake.

Evidence impact would be significant: Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: substantially divert or obstruct the natural flow of any river, stream or lake; substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or deposit debris, waste or other materials that could pass into any river, stream or lake.



Recommended Potentially Feasible Mitigation Measure(s) (Regarding Project Description and Related Impact Shortcoming)

Mitigation Measure 4:

To minimize significant impacts: Information on how to submit a Notification of Lake or Streambed Alteration can be found at <a href="https://wildlife.ca.gov/Conservation/LSA">https://wildlife.ca.gov/Conservation/LSA</a>. CDFW requests that the County of San Bernardino include the following new mitigation measure in the Final MND:

MM BIO-X: Notification of Lake and Streambed Alteration. Prior to commencement of Project activities, the Project Proponent shall submit a Notification of Lake or Streambed Alteration to CDFW's Lake and Streambed Alteration Program. Upon receipt of a complete notification and associated fees, CDFW shall determine if Project activities may substantially adversely affect existing fish and wildlife resources. The Project Proponent shall obtain a CDFW-executed Lake or Streambed Alteration Agreement, authorizing impacts to resources associated with the Project, or a letter from CDFW stating an Agreement is not required.

# Response:

Per the BRA, the dry lakebed does not meet the definition of WoUS due to the isolated nature of Lucerne Valley and is not subject to the CWA. No hydrophitic vegetation, hydric soils and/or wetland hydrology, are present within the Project site. Therefore, no wetlands were identified during the survey. State Lake/Streambed, the dry lakebed itself could be subject to the California FGC Section 1600 regulations that fall under the jurisdiction of the CDFW, but the project will not encroach on this area. No impact is anticipated.

Comment #6: Editorial Comments and/or Suggestions

MM-BIO-3: On-site Education. A qualified biologist shall conduct an education program for all persons employed or otherwise working on the Project site prior to performing any work on-site. The program shall consist of a presentation that includes a discussion of the biology of the habitats and species that may be present at the site. The qualified biologist shall also include as part of the education program information about the distribution and habitat needs of any special status species that may be present, legal protections for those species, penalties for violations, and mitigation measures. Education should include but not be limited to desert tortoise, burrowing owl, special status plant species, and nesting birds. Interpretation shall be provided for non-English speaking workers, and the same instruction shall be provided for any new workers prior to their performing work onsite.

MM-X: Escape Ramp in Trench. At the end of each work day, the Biological Monitor(s) shall place an escape ramp at each end of the open trench to allow any animals that may have become entrapped in the trench to climb out overnight. The ramp may be constructed of either dirt fill or wood planking or other suitable material that is placed at an angle no greater than 30 degree.



# Response:

Comment Noted. However, the proposed operation does not include trench mining as it is a proposed shallow-sloped open pit borrow pit. With that said, mitigation measures will be considered.

Comment #7: Environmental Date

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form found following can be the http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The types of information reported to CNDDB can be found at the following link: http://www.dfg.ca.gov/biogeodata/cnddb/plants and animals.asp.

#### Response:

Comment noted, the BRA did utilize the CNDDB.

If you have any further questions and wish to discuss our resonses, please email or call me.

Thank you,

Frank Amendola Lilburn Corporation (O) 909-890-1818 frank@lilburncorp.com



www.SBCounty.gov



# **Land Use Services Department Mining**

Terri Rahhal Director

October 19, 2020

Carol E. Atkins Department of Conservation Division of Mine Reclamation 801 K Street MS 09-06 Sacramento, CA 95814

RE: THIRTY (30) DAY ADVANCE NOTICE OF INTENT TO RECOMMEND APPROVAL OF THE COUNTY OF SAN BERNARDINO, DEPARTMENT OF PUBLIC WORKS' (DPW) REQUESTFOR OF A MINING CONDITIONAL USE PERMIT AND RECLAMANTION PLAN FOR THE PROPOSED COVE BORROW PITAPN: 0464-171-01: PROJECT #: PROJ-2020-00017

Dear Ms. Atkins:

Pursuant to Public Resources Code Section 2772.1, the County of San Bernardino's Planning Division is hereby providing advance notice to the Division of Mine Reclamation (DMR) of staff's intent to recommend approval of the County of San Bernardino, Department of Public Works' proposed Cove Borrow Pit on an 196-acre site with an estimated termination date of December 2120, or 100 years from approval date. The Planning Commission Hearing on this matter is tentatively scheduled for November 19, 2020.

Planning staff has considered the comments offered by DMR in the letter dated July 10<sup>th</sup>, 2020, and appreciates the opportunity to present responses that will facilitate approval of the proposed Mining Conditional Use Permit and Reclamation Plan for the Cove Borrow Pit operation. The final text and maps will be completed upon approval, incorporating final revisions and additions per DMR's comments andincorporate the following responses and/or conditions imposed by the Planning Division prior to allowing any new mining disturbance. Staff is confident that the County responses address DMR's comments.

# **Jurisdictional Considerations**

(Refer to PRC Section 2771)

# **General Considerations**

(Refer to PRC Sections 2770, 2772, 2773 and 2776 and CCR Sections 3502, 3709, and 3713)

1. Comment 1- The contents chart required pursuant to PRC Section 2772(b) was included in the RP submittal. However, the page and section numbers identifying where contents meet SMARA requirements is inaccurate, often referencing incorrect pages and sections within the RP. Additionally, the Revegetation Plan that appears to fulfill some of the SMARA requirements for RPs are not referenced in the contents chart.

Cove Borrow Pit October 8, 2020 PAGE **2** of **4** 

The Division recommends the County revise the contents chart to accurately reflect where contents meet the requirements of SMARA.

Response: Recommended changes have been made. The Chart has been revised accordingly.

2. Comment 2 - PRC Section 2772(c)(3) states the RP shall include "...the proposed dates for the initiation and termination of the surface mining operation." The RP (page 2) estimates the operating life of the surface mine to be one hundred years from County approval; the Revegetation Plan (Page 3) indicates that the surface mining operation will be for 50 years.

The RP and the Revegetation Plan need to be consistent. The Division recommends that the RP and Revegetation Plan be revised to be consistent with one another on the matter of termination date. Additionally, the Division recommends that the Revegetation Plan be revised to satisfy a 100-year mining plan.

Response: Recommended changes have been made. The Reports will be revised so they are consistent with the 100-year time span.

# Geology and Geotechnical Considerations (Refer to PRC Sections 2772 and 2773 and CCR Sections 3502 and 3704)

3. Comment 3- Upon approval, the RP maps submitted to satisfy SMARA Section 2772(c)(5) must be signed and stamped by the designated person in responsible charge of civil engineering for the project to ensure compliance with State Business and Professions Code.

Response: The maps are not required to be stamped by a civil engineer as no structural or building plans are proposed. However, the site was surveyed, and that survey was used to create the planning document. The surveyors stamp is provided on the sheets.

# Revegetation Considerations (Refer to PRC Section 2773 and CCR Sections 3503 and 3705)

4. Comment 4 - The RP (page 17) states, "The recommended seed mix and seed rate...is outlined in Table 2 and may be modified or species replaced due to availability of the seed that year and seed cost." Pursuant to CCR Section 3705(g), "[N]ative plants species shall be used for revegetation, except where introduced species are necessary to meet the end uses specified in the approved RP. Areas to be developed for industrial, commercial or residential uses shall be revegetated for the interim period, as necessary, to control erosion."

The Division recommends revising the RP to clarify that seed modification from the approved seed mix will be made with comparable California native species (i.e., substituting one perennial native shrub species with another comparable perennial native shrub species). Cove Borrow Pit October 8, 2020 PAGE **3** of **4** 

Response: Per the Revegetation Plan, the seed mix will be a subset of the native plants identified during surveys (Table 2 of the Plan). Species recommended were the most commonly encountered on the site and accounted for the majority of the vegetative coverage. Selection of species at the time of revegetation will be a balance of availability with some preference to species with low dispersibility. No species found on-site will be substituted for a species observed on-site but whose seed is not available at the time of revegetation. The RP will be revised to clarify.

5. Comment 5 -The RP Recommended Seed Mix (Page 18) proposes California mustard, Pigmy weed, Fairy mist, Thistle sage, and Common lace pod at a seeding rate of 0 (Zero) Pure Live Seed Ibs/acre.

The Division recommends revising the recommended seed mix to include a seeding rate for Pure Live Seed lbs/acre.

Response: Recommended changes have been made. These species were initially not available from S&S Seeds. The table has been revised. All seeds will be Pure Live Seed (lbs/acre).

6. Comment 6 - The Biological Resource Assessment (2019; Jericho Systems) describes the plant community at the Quarry as extremely diverse with a total of 70 species observed and only nine percent non-native species present. The Revegetation Plan (page 6), recommends seed collection to, "preserve the local genetic diversity of the existing plant community while providing seed that is well suited for growth at the site."

While seed collection is not written into the RP or required pursuant to SMARA statute, the Division recommends including seed collection by a seed firm or qualified Biologist to preserve the sites genetic diversity and increase revegetation success specific to the site.

Response: Recommended changes have been made. Seed collection would be conducted by a seed firm or qualified Biologist to preserve the sites' genetic integrity and increase revegetation success specific to the site.

# Topsoil Considerations (Refer to CCR Sections 3503, 3704, 3705, and 3711)

7. Comment 7- CCR Section 3711(e) states that "[T]opsoil and suitable growth media shall be redistributed in a manner that results in a stable, uniform thickness consistent with the approved end use, site configuration, and drainage patterns." The RP (page 15) proposes stockpiles be spread out evenly over the site to a depth up to one-foot deep; The Revegetation Plan (page 6) proposes available soil will be deposited in random "islands" up to one-foot thick and seeded.

The Division recommends that the RP and Revegetation Plan be revised to be consistent with one another.

Response: Recommended changes have been made. The plan was revised to be consistent with the Division's suggestion.

Cove Borrow Pit October 8, 2020 PAGE **4** of **4** 

8. Comment 8 - Pursuant to CCR 3711(c)(1-3), "Soil salvage operations and phases of reclamation shall be carried out in accordance with a schedule that is set forth in the approved RP, minimizes the area disturbed, and is designed to achieve maximum revegetation success allowable under the mining plan." The RP (page 15) states, "Reclamation of the mine will be undertaken at the completion of mining operations." The proposed termination date for mining activities is 2120 or 100 years from the mine initiation date.

The Division recommends revising the RP to include phased reclamation activities in concurrence with mining activities pursuant to CCR 3711(c)(1-3).

Response: Comment noted, however, the end use on the approximately 15.5 acres and the small pit floors will be a County DPW service and storage yard. Revegetation will only occur along the slopes of the mined areas and on 4 acres previously disturbed at the northwestern portion of the reclaimed site and left as open space. The remaining approximately 90 acres that is not proposed for mining will remain as open space.

9. Comment 9 - Pursuant to CCR 3711(d), "Topsoil and suitable growth media stockpiles shall be planted with a vegetative cover or shall be protected by other equally effective measures to prevent water and wind erosion and to discourage weeds." The Revegetation Plan (page 6) proposes the soil stockpiles will be clearly marked and stabilized with a breathable erosion control method such as jute netting.

Jute netting is not a long-term solution to stockpile erosion control and does not provide weed control. Additionally, the Division questions whether the use of jute netting will be protective over the 100-year mining period without maintenance.

Response: Recommended changes have been made. The plan was revised to include additional language regarding weed control and the reference to jute netting was removed.

Should you have any questions regarding this advance notice and response to comments, please feel free to call me direct at 909 387-4421.

Sincerely,

XVAL Steven A. Valdez Steven Valdez. Senior Planner

SV

Attachment: DMR comments dated July 10<sup>th</sup>, 2020

cc: George H. Kenline, Environmental Compliance Manager

Nancy Sansonetti, Department of Public Works

April 20, 2020

Mr. Steven Valdez San Bernardino County Land Use Services Department 385 N. Arrowhead Avenue, First Floor San Bernardino, CA 92415

Copy transmitted by email: <a href="mailto:steven.valdez@lus.sbcounty.gov">steven.valdez@lus.sbcounty.gov</a>

# NOTICE OF INCOMPLETE RECLAMATION PLAN SUBMISSION PROPOSED COVE QUARRY

Dear Mr. Valdez:

The Department of Conservation's Division of Mine Reclamation (Division) received a Reclamation Plan (RP) for the proposed Cove Quarry submitted by San Bernardino County (County) on March 19, 2020. The County is the lead agency under the Surface Mining and Reclamation Act of 1975 (SMARA; Public Resources Code [PRC] Section 2710 et seq.). The Division determined that the submittal is incomplete pursuant to PRC Section 2772.1(b)(1):

"An incomplete submission is one that does not meet the contents requirements of Section 2772, 2773, and 2773.3 and Article 1 (commencing with Section 3500) and Article 9 (commending with Section 3700) of Subchapter 1 of Chapter 8 of Division 2 of Title 14 of the California Code of Regulations (CCR), as applicable."

Pursuant to PRC Section 2772.1(b)(3), the Division's time to prepare written comments regarding the RP will commence when the Division receives the following information:

- 1. Studies and methods to support development of practices and performance standards for topsoil salvage, management, and distribution as required by Section 2773(a) were not included in the RP submittal and must be submitted. These baseline studies are required to:
  - Identify and map topsoil resources prior to stripping, as well as map the location of the topsoil stock piles pursuant to CCR Section 3711(b)
  - Establish the need for test plots to determine the suitability of growth media for revegetation purposed pursuant to CCR Section 3711(b)
  - Establish soil salvage operations and phases of reclamation to minimize disturbed areas and achieve maximum revegetation success pursuant to CCR Section 3711(c)
  - Identify and protect topsoil and suitable growth media equally with effective measures to prevent water and wind erosion and to discourage weeds pursuant to CCR Section 3711(d)
  - Establish redistribution of topsoil and suitable growth media in a manner that results in a stable, uniform thickness consistent with the

#### State of California Natural Resources Agency | Department of Conservation

801 K Street, MS 09-06, Sacramento, CA 95814 conservation.ca.gov | T: (916) 323-9198 | F: (916) 322-4862 DocuSign Envelope ID: 270C2F1F-2C8D-45CD-96EC-35AA5EF56CC1

Mr. Valdez Cove Quarry April 20, 2020

approved end use, site configuration, and drainage patterns pursuant to CCR Section 3711(e)

Although not a requirement for completeness under PRC Section 2772.1(b)(1), for borrow pits operated by a lead agency, PRC Section 2770.1 requires:

"For the purposes of a borrow pit surface mining operation that is owned or operated by a lead agency solely for use by that lead agency...[I]n addition to the requirements of Sections 2772 and 2773, the lead agency shall include in its reclamation plan maintenance measures that become effective when the borrow pit surface mining operation is idle. The maintenance measures shall maintain the site in compliance with this chapter while the borrow pit surface mining operation is idle."

The RP must include maintenance measures that become effective when the borrow pit surface mining operation is idle. The RP needs to include these maintenance measures.

If you have any questions on these comments please contact either of us at (916) 323-9198.

Sincerely,

-- DocuSigned by:

Carol E. Otkins

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Carol E. Atkins, Manager Environmental Services Unit DocuSigned by:

Pal 725 —29D2BE549209416...

Paul Fry, P.G, Manager Engineering and Geology Unit

cc (transmitted by email):

Nancy Sansonetti, County of San Bernardino, Department of Public Works

George Kenline, County of San Bernardino, Environmental Compliance Manager



August 12, 2020

Ms. Carol Atkins, Manager Environmental Service Unit California Department of Conservation Division of Mine Reclamation 801 K Street, MS 09-06 Sacramento, CA 95814

Subject: Response to Mine Reclamation Plan Submission "Cove Borrow Pit" Dated July 10<sup>th</sup>, 2020

Dear Ms. Atkins.

This letter is in response to the comment letter received from the California Department of Conservation, Division of Mine Reclamation dated July 10, 2020 concerning the Mine Reclamation Plan (Plan) Submission of "Cove Quarry" which was submitted on March 19, 2020 to the San Bernardino County, Land Use Services Department. We have copied and pasted your comments followed by our response to the comment or a statement of where the information can be found in the document.

#### Comment #1

The contents chart required pursuant to PRC Section 2772(b) was included in the RP submittal. However, the page and section numbers identifying where contents meet SMARA requirements is inaccurate, often referencing incorrect pages and sections within the RP. Additionally, the Revegetation Plan that appears to fulfill some of the SMARA requirements for RPs are not referenced in the contents chart.

The Division recommends the County revise the contents chart to accurately reflect where contents meet the requirements of SMARA.

#### Response:

Comment noted. The Chart will be revised accordingly.

#### Comment #2

PRC Section 2772(c)(3) states the RP shall include "...the proposed dates for the initiation and termination of the surface mining operation." The RP (page 2) estimates the operating life of the surface mine to be one hundred years from County approval; the Revegetation Plan (Page 3) indicates that the surface mining operation will be for 50 years.

Ms. Carol Atkins August 12, 2020 Page 2

The RP and the Revegetation Plan need to be consistent. The Division recommends that the RP and Revegetation Plan be revised to be consistent with one another on the matter of termination date. Additionally, the Division recommends that the Revegetation Plan be revised to satisfy a 100-year mining plan.

#### Response:

Comment noted. The Reports will be revised so they are consistent with the 100-year time span.

#### Comment #3

Upon approval, the RP maps submitted to satisfy SMARA Section 2772(c)(5) must be signed and stamped by the designated person in responsible charge of civil engineering for the project to ensure compliance with State Business and Professions Code.

### Response:

The maps are not required to be stamped by a civil engineer as no structural or building plans are proposed. However, the site was surveyed, and that survey was used to create the planning document. The surveyors stamp is provided on the sheets.

#### Comment #4

The RP (page 17) states, "The recommended seed mix and seed rate...is outlined in Table 2 and may be modified or species replaced due to availability of the DocuSign Envelope ID: F65188D8-5B17-4EC5-ADA4-72A6D78CF81A seed that year and seed cost." Pursuant to CCR Section 3705(g), "[N]ative plants species shall be used for revegetation, except where introduced species are necessary to meet the end uses specified in the approved RP. Areas to be developed for industrial, commercial or residential uses shall be revegetated for the interim period, as necessary, to control erosion."

The Division recommends revising the RP to clarify that seed modification from the approved seed mix will be made with comparable California native species (i.e., substituting one perennial native shrub species with another comparable perennial native shrub species).

# Response:

Per the Revegetation Plan, the seed mix will be a subset of the native plants identified during surveys (Table 2 of the Plan). Species recommended were the most commonly encountered on the site and accounted for the majority of the vegetative coverage. Selection of species at the time of revegetation will be a balance of availability with some preference to species with low dispersibility. No species found on-site will be substituted for a species observed on-site but whose seed is not available at the time of revegetation. The RP will be revised to clarify.



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#### Comment #5

The RP Recommended Seed Mix (Page 18) proposes California mustard, Pigmy weed, Fairy mist, Thistle sage, and Common lace pod at a seeding rate of 0 (Zero) Pure Live Seed lbs/acre. The Division recommends revising the recommended seed mix to include a seeding rate for Pure Live Seed lbs/acre.

### Response:

Comment noted. These species were not available from S&S Seeds. The table will be revised. All seeds will be Pure Live Seed (lbs/acre).

#### Comment #6

The Biological Resource Assessment (2019; Jericho Systems) describes the plant community at the Quarry as extremely diverse with a total of 70 species observed and only nine percent non-native species present. The Revegetation Plan (page 6), recommends seed collection to, "preserve the local genetic diversity of the existing plant community while providing seed that is well suited for growth at the site."

While seed collection is not written into the RP or required pursuant to SMARA statute, the Division recommends including seed collection by a seed firm or qualified Biologist to preserve the sites genetic diversity and increase revegetation success specific to the site.

### Response:

Comment noted, seed collection would be conducted by a seed firm or qualified Biologist to preserve the sites genetic diversity and increase revegetation success specific to the site.

#### Comment #7

CCR Section 3711(e) states that "[T]opsoil and suitable growth media shall be redistributed in a manner that results in a stable, uniform thickness consistent with the approved end use, site configuration, and drainage patterns." The RP (page 15) proposes stockpiles be spread out evenly over the site to a depth up to one foot deep; The Revegetation Plan (page 6) proposes available soil will be deposited in random "islands" up to one-foot thick and seeded.

The Division recommends that the RP and Revegetation Plan be revised to be consistent with one another.

#### Response:

Comment noted. The plan will be revised to be consistent.



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#### Comment #8

Pursuant to CCR 3711(c)(1-3), "Soil salvage operations and phases of reclamation shall be carried out in accordance with a schedule that is set forth in the approved RP, minimizes the area disturbed, and is designed to achieve maximum revegetation success allowable under the mining plan." The RP (page 15) states, "Reclamation of the mine will be undertaken at the completion of mining operations." The proposed termination date for mining activities is 2120 or 100 years from the mine initiation date.

The Division recommends revising the RP to include phased reclamation activities in concurrence with mining activities pursuant to CCR 3711(c)(1-3).

# Response:

Comment noted, however, the end use on approx. 15.5 acres and the small pit floors will be County DPW service and storage yard. Revegetation will only occur along the slopes of the mining areas and on 4 acres previously disturbed in the northwest and reclaimed as open space. The remaining approximately 90 acres not proposed for mining will remain open space.

#### Comment #9

Pursuant to CCR 3711(d), "Topsoil and suitable growth media stockpiles shall be planted with a vegetative cover or shall be protected by other equally effective measures to prevent water and wind erosion and to discourage weeds." The Revegetation Plan (page 6) proposes the soil stockpiles will be clearly marked and stabilized with a breathable erosion control method such as jute netting.

Jute netting is not a long-term solution to stockpile erosion control and does not provide weed control. Additionally, the Division questions whether the use of jute netting will be protective over the 100-year mining period without maintenance.

#### Response:

Comment noted. The plan was revised to include additional language regarding weed control and remove jute netting.

If you have any further questions and wish to discuss our resonses, please email or call me.

Thank you,

Frank Amendola Lilburn Copromotion (O) 909-890-1818 frank@lilburncorp.com

