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PLANNING COMMISSION MEETING
April 5, 2022

FILE NUMBER:	MA #2021-001
PROPERTY OWNER:	Bureau of Land Management (managed by)
OPERATOR:	Interest Income Partners, contracting with
	Geofortis Minerals, LLC
TYPE OF APPLICATION	Reclamation Plan Minor Amendment

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LASSEN COUNTY PLANNING COMMISSION
MINOR AMENDMENT #2021-001 STAFF REPORT
April 5, 2022

FILE NUMBER:	MA #2021-001
PROPERTY OWNER:	Bureau of Land Management (administered by)
OPERATOR:	Interest Income Partners, contracting with Geofortis Minerals, LLC
TYPE OF APPLICATION:	Reclamation Plan Minor Amendment
MINE NAME/ID:	Long Valley Pozzolan Mine (#91-18-0037)
GENERAL LOCATION:	6 miles north of Hallelujah Junction
ASSESSOR'S PARCEL NUMBER(S):	145-030-018-000
PROJECT SITE ZONING:	A-1 (General Agriculture)
GENERAL PLAN:	Extensive Agriculture
ENVIRONMENTAL DOCUMENT:	Exempt (see discussion)
APPEAL:	Any person not satisfied with the action of the planning commission may, within ten days of the Planning Commission's action, appeal in writing to the Board of Supervisors (submitted to the County Clerk) with a filing fee of \$500.00.
ASSIGNED STAFF:	Cortney Flather, Natural Resources Technician

AUTHORITY FOR APPLICATION:

Lassen County Code Section 9.60.040(b)
Public Resources Code Section 2777
California Code of Regulations Section 3502(d-h)

REGULATING AGENCIES: Regulatory authority for the existing uses includes, but is not limited to the following agencies:

<u>Agency</u>	<u>Required Permits / Approvals/Review</u>
Lassen County Planning Commission	Minor Amendment Approval
California Department of Conservation, Division of Mine Reclamation	Minor Amendment Review

PROJECT DESCRIPTION: Proposal for a minor amendment to Reclamation Plan #95004 to include mitigation measures associated with the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*), a rare plant rank 2B.2 meaning rare, threatened, or endangered in California. The minor amendment must address the requirements of Lassen County Code Sections 9.60.040, Public Resources Code section 2777, and California Code of Regulations 3502(d-h). The minor amendment is exempt from the California Environmental

Quality Act (CEQA), under section 15307 and 15308 of the CEQA guidelines. The surface mining operation is situated on approximately 5 acres of a 117-acre parcel administered by the Bureau of Land Management (BLM). The subject parcel is zoned A-1 (General Agriculture) and is designated Extensive Agriculture by the Lassen County General Plan 2000. The parcel is located approximately 6 miles north of Hallelujah Junction off of Hwy 395. A.P.N. 145-030-018-000. Staff Contact: Cortney Flather, Natural Resources Technician

DISCUSSION: The Long Valley Pozzolan Mine is located on land administered by the BLM and therefore, a Use Permit from Lassen County is not required. As the Lead Agency for the Surface Mining and Reclamation Act (SMARA) of 1975, and as stated in a Memorandum of Understanding (MOU) between the Department of Conservation, Forest Service, and BLM, Lassen County has the responsibility to regulate surface mining and reclamation. Therefore, a Reclamation Plan is required as per SMARA.

On March 8, 1995, the Lassen County Planning Commission approved Reclamation Plan #95004. On February 1, 2017, the Lassen County Planning Commission approved IMP #2016-001 which allowed for a temporary reduction of mining operations during idle production periods. The mining operation is still operating under this IMP.

The mining operation is currently in compliance with the Surface Mining and Reclamation Act (SMARA), including requirements of the approved Reclamation Plan. The mining operation has a financial assurance mechanism (FAM), held by Lassen County, sufficient to cover the most recent financial assurance cost estimate (FACE) including protection measures associated with the white woolly buckwheat.

SURROUNDING PROPERTY ZONING AND CHARACTERISTICS: Parcels surrounding the project site are zoned A-1 (General Agriculture) and U-C (Upland Conservation District). Surrounding properties are used primarily for agriculture, grazing, and open space.

STATUTORY REVIEW:

Lassen County Code

Lassen County Code Chapter 9.60 defines and outlines the process for amending Use Permits and Reclamation Plans. The applicable sections are as follows:

9.60.040(b) Minor Amendment to Use Permit or Reclamation Plan. The county recognizes the dynamic nature of mining and the need to adjust operations and reclamation plans from time to time based on the characteristics of the mineral deposits or market conditions. An application for a minor amendment to the existing use permit and/or reclamation plan may be submitted to the county for consideration and approval. For a proposed amendment to be considered “minor” it must: (1) be reasonably within the scope of the existing use permit and reclamation plan; and (2) not involve substantial new disturbed lands (considering the extent of the existing permitted operation and the environmental sensitivity of the area). A minor amendment shall be reviewed to determine the applicability of the California Environmental Quality Act (CEQA). The community development director, together

with the CAO shall be authorized to make a determination as to whether or not a proposed amendment qualifies as minor. An applicant shall be notified in writing of the determination of the director and CAO. If a proposed amendment is determined not to qualify as minor the reasons for the determination shall be specified in the notice.

9.60.040(b)(1) Process. Minor amendments shall be processed pursuant to County Code Chapter 18.112 (Use Permits). The planning commission's review of a minor amendment application, and any conditions of approval attached thereto, shall be limited to the changes to the existing use permit and/or reclamation plan proposed by the amendment.

California Statutes and Regulations for the Division of Mine Reclamation

Pursuant to the Surface Mining and Reclamation Act (SMARA), PRC Section 2777, amendments to an approved reclamation plan may be submitted detailing proposed changes from the original plan. Substantial deviations from the original plan shall not be undertaken until such amendment has been filed with, and approved by, the lead agency.

The California Code of Regulations (CCR) sets the criteria for identifying changes to a mining operation which constitute a substantial deviation. CCR Section 3502(d) defines a substantial deviation as a change or expansion to a surface mining operation that substantially affects the completion of the previously approved reclamation plan, or that changes the end use of the approved plan to the extent that the scope of the reclamation required for the surface mining operation is substantially changed. In determining whether a change or expansion constitutes a substantial deviation, the lead agency shall take into consideration the following factors:

- 1) A substantial increase in the disturbance of a surface area or in the maximum depth of mining;
- 2) A substantial extension of the termination date of the mining operation as set out in the approved reclamation plan;
- 3) Changes that would substantially affect the approved end use of the site as established in the reclamation plan;
- 4) The consistency of any proposed change to the operation with the previously adopted environmental determinations;
- 5) Any other changes that the lead agency deems substantial deviations as defined in this subsection.

California Environmental Quality Act (CEQA)

The Lassen County Planning Commission has determined that further environmental review is not required for the proposed amendment.

Pursuant to the CEQA Section 15162(a), When an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in light of the whole record, one or more of the following:

- 1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- 2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- 3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified as complete or the negative declaration was adopted, shows the following:
 - A) The project will have one or more significant effects not discussed in the previous EIR or Negative Declaration.
 - B) Significant effects previously examined will be substantially more severe than previously shown in the previous EIR.
 - C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measures or alternative; or
 - D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Furthermore, CEQA guidelines section 15307 and 15308 categorically exempts actions involving procedures for the protection of the environment:

§15307. ACTIONS BY REGULATORY AGENCIES FOR PROTECTION OF NATURAL RESOURCES Class 7 consists of actions taken by regulatory agencies as authorized by state law or local ordinance to assure the maintenance, restoration, or enhancement of a natural resource where the regulatory process involves procedures for protection of the environment. Examples include but are not limited to wildlife preservation activities of the State Department of Fish and Game. Construction activities are not included in this exemption.

§15308. ACTIONS BY REGULATORY AGENCIES FOR PROTECTION OF THE ENVIRONMENT Class 8 consists of actions taken by regulatory agencies, as authorized by state or local ordinance, to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment. Construction activities and relaxation of standards allowing environmental degradation are not included in this exemption.

ENVIRONMENTAL REVIEW OFFICER RECOMMENDATION: The ERO has not identified any of the conditions requiring further environmental review.

DEPARTMENT OF CONSERVATION: Notice of the proposed Minor Amendment was sent to the State of California Department of Conservation, Division of Mine Reclamation (DMR), with a complete copy of the submitted application and attachments. DMR has not provided comment in reference to the project.

ASSEMBLY BILL 52: No tribe has requested notifications for projects in this area, pursuant to AB 52.

FINDINGS and/or RECOMMENDATIONS BY TAC: The Technical Advisory Committee (TAC) met on February 9, 2022 and has adopted recommended findings and conditions for consideration by the Planning Commission. The recommended findings and conditions can be found in the memos to the TAC.

STAFF RECOMMENDATION: Staff has reviewed enclosed Minor Amendment 2021-001 and has found it to be consistent with Lassen County Code, Section 9.60.040 and Public Resources Code, Section 2710 et seq. (SMARA), and in compliance with approved Reclamation Plan #95004.

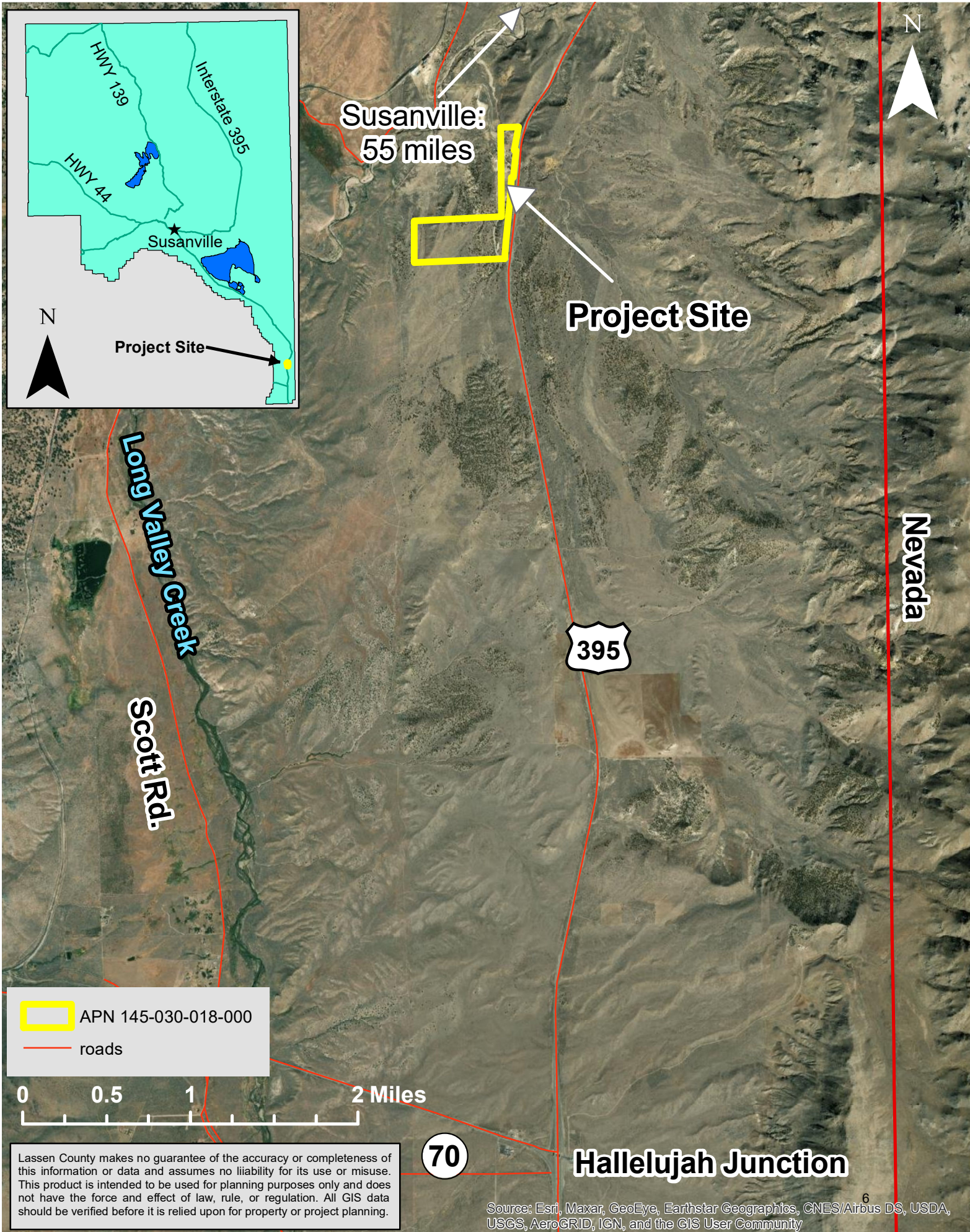
Staff recommends that the Planning Commission adopt a resolution approving Minor Amendment #2021-001, amending approved Reclamation Plan #95004, with conditions.

PLANNING COMMISSION ACTION: The planning commission's review of a minor amendment application, and any conditions of approval attached thereto, shall be limited to the changes to the existing reclamation plan proposed by the amendment.

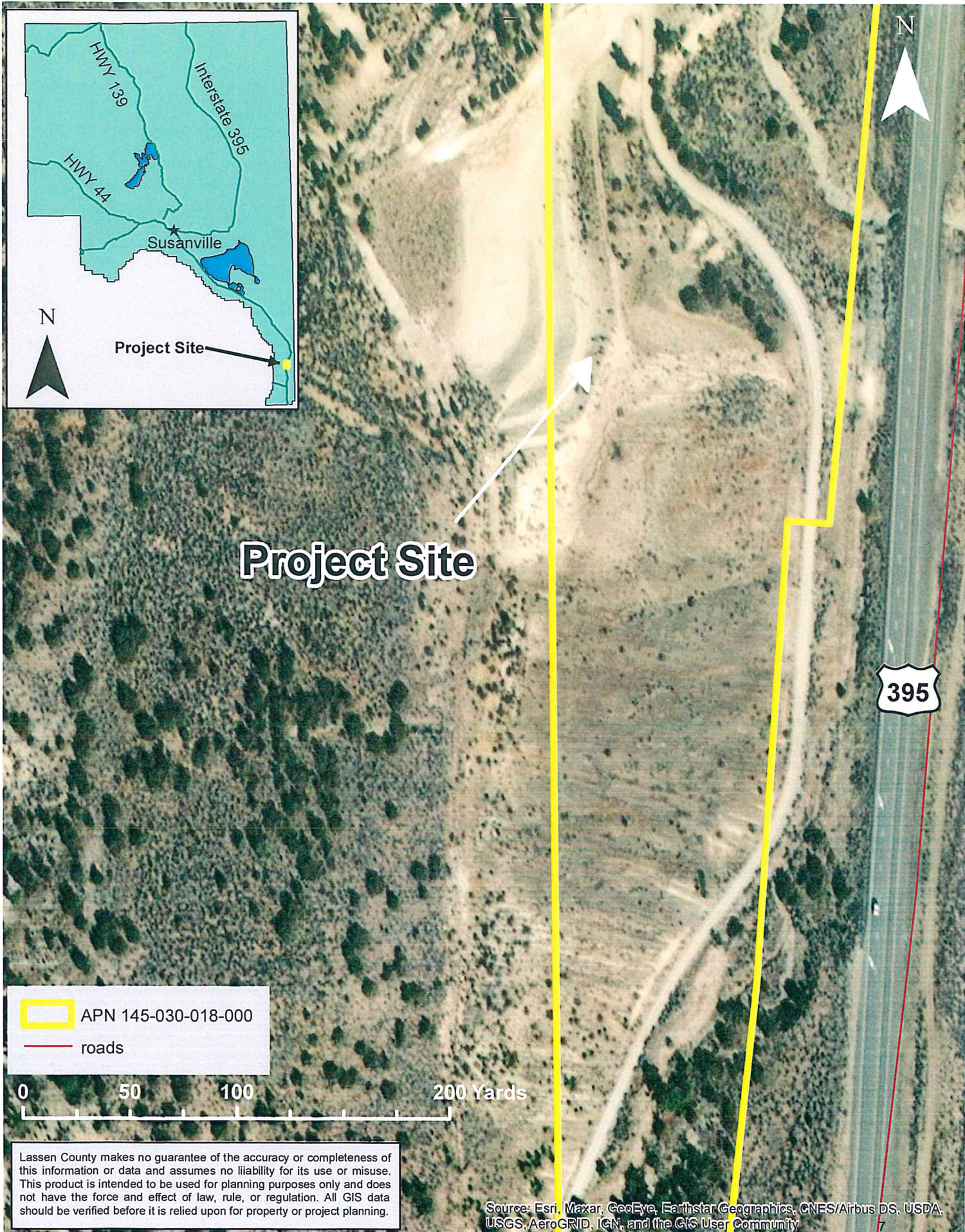
MANDATORY FINDINGS: The following findings shall be made by the Planning Commission or Board of Supervisors, as applicable, in conjunction with any other findings which may be considered for the approval or denial of a use permit amendment:

- (a) That the project will or will not, under the circumstances of the particular case, be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such use, nor be detrimental or injurious to property and improvements in the neighborhood or to the general welfare.
- (b) That the project is or is not consistent with the *Lassen County General Plan, 2000*.

Long Valley Pozzolan Mine Vicinity Map



Long Valley Pozzolan Mine Site Map



RESOLUTION NO. _____

RESOLUTION OF THE LASSEN COUNTY PLANNING COMMISSION APPROVING MINOR AMENDMENT #2021-001, A MINOR AMENDMENT TO RECLAMATION PLAN #95004, GEOFORTIS MINERALS LLC.

WHEREAS, the Planning Commission of Lassen County, after due notice and a public hearing conducted April 5, 2022, has considered the proposed Minor Amendment to Reclamation Plan #95004, Geofortis Minerals LLC, to include mitigation measures associated with the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*), a rare plant rank 2B.2 meaning rare, threatened, or endangered in California (CA Mine ID #91-18-0037). The project site is zoned A-1 (General Agriculture) and is located approximately 6 miles north of Hallelujah Junction off of Highway 395. APN: 145-030-018-000.

WHEREAS, the Environmental Review Officer (ERO) has determined that the proposed amendments are within the scope of the original environmental document (Negative Declaration #95004) and that pursuant to Section 15162 of the California Environmental Quality Act Guidelines, no additional review is required.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

1. The foregoing recitals are true and correct.
2. The Lassen County Planning Commission finds as follows:
 - a. The proposed amendment is within the scope of the original approved reclamation plan and does not involve substantial new changes to the end use. Therefore, the amendment qualifies as “minor” under the provisions of Chapter 9.60 of the Lassen County Code.
 - b. The surface mining operation, as amended, will not cause substantial environmental damage, and upon successful execution of the reclamation plan, the project site will be returned to the original land use, grazing and open space.
 - c. The amended Reclamation Plan substantially complies with the provisions of the Surface Mining and Reclamation Act of 1975 (PRC § 2710-2796.5).
 - d. The surface mining operation, as amended, is consistent with the *Lassen County General Plan, 2000*, with Chapter 18.16 of the Lassen County Zoning Ordinance, regulating land uses in the A-1 zoning district (General Agriculture), and with the provisions of Lassen County Code Chapter 9.60, regulating surface mining and reclamation.

e. The amended reclamation plan, as conditioned, will not, under the circumstances of the particular case, be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such use, nor be detrimental or injurious to property and improvements in the neighborhood or to the general welfare.

3. The Lassen County Planning Commission hereby adopts the Technical Advisory Committee's findings, contained in the Planning Commission staff report.
4. The Planning Commission hereby concurs with the ERO that the proposed amendment is within the scope of the original negative declaration and that no additional environmental review is required under the California Environmental Quality Act.
5. The Planning Commission hereby approves the proposed minor amendment to Reclamation Plan, File No. 95004, subject to the original conditions of approval and the conditions prescribed by the Technical Advisory Committee, attached hereto as Exhibit A.

PASSED AND ADOPTED at a regular meeting of the Planning Commission of the County of Lassen, State of California, on the 5th day of April 2022, by the following vote:

AYES: _____

NOES: _____

ABSTAIN: _____

ABSENT: _____

Chairman
Lassen County Planning Commission

ATTEST:

Maurice L. Anderson, Secretary

EXHIBIT A

CONDITIONS OF APPROVAL MINOR AMENDMENT 2021-001, GEOFORTIS MINERALS, LLC.

1. In order to reduce impacts to the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*) from mining activities, all individual white woolly buckwheat plants within the mine area shall be transplanted to a project nursery for replanting during reclamation. Transplants shall be monitored to ensure they are viable for reclamation.

Seeds from plants not transplanted (plants that will not be disturbed) shall be collected at the appropriate time of year, by a qualified botanist, and shall be stored using scientifically sound collection and storage techniques. In addition, white woolly buckwheat populations that will not be transplanted shall be marked with earth-toned exclusion fencing.

All preservation areas shall be mapped and protected. All areas planted with white woolly buckwheat shall be mapped. All maps shall be provided to Lassen County and the California Department of Fish and Wildlife. Monitoring methods shall occur according to the revised Surface Mining and Reclamation Act (SMARA) Reclamation Plan. Mine workers shall be trained to protect this species.

2. A specific white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*) conservation plan shall be submitted and approved by the BLM and Lassen County to protect this species prior to additional ground disturbance (prior to additional vegetation removal).
3. All requirements and conditions of the previously approved Reclamation Plan #95004 remain applicable, excepting the changes addressed in Minor Amendment #2021-001.



County of Lassen

Department of Planning and Building Services

• Planning • Building • Environmental Health • Code Enforcement • Surveyor • Surface Mining

February 9, 2022

Maurice L. Anderson, Director

707 Nevada Street, Suite 5

Susanville, CA 96130-3912

Phone: 530 251-8269

Fax: 530 251-8373

email: landuse@co.lassen.ca.us

website: www.co.lassen.ca.us

TO: Technical Advisory Committee
Agenda Date: March 3, 2022

Zoning & Building


Inspection Requests

Phone: 530 257-5263

Environmental Health

Messages: 530 251-8528

email: EHE@co.lassen.ca.us

FROM: Maurice L. Anderson, Director 
RE: Minor Amendment #2021-001, Geofortis Minerals LLC
CA Mine ID #91-18-0037, Long Valley Pozzolan

Project Description

MINOR AMENDMENT #2021-001, Geofortis Minerals LLC. Proposal for a minor amendment to Reclamation Plan #95004 to include mitigation measures associated with the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*), a rare plant rank 2B.2 meaning rare, threatened, or endangered in California. The minor amendment must address the requirements of Lassen County Code Sections 9.60.040 and 9.18.112, Public Resources Code section 2777, and California Code of Regulations 3502(d-h). The minor amendment is not subject to the California Environmental Quality Act (CEQA), as it is not considered a "project" as defined by Section 15378 of the CEQA Guidelines and SMARA, Section 2770(h)(1). The surface mining operation is situated on approximately 5 acres of a 117-acre parcel managed by the Bureau of Land Management. The subject parcel is zoned A-1 (General Agriculture) and is designated Extensive Agriculture by the Lassen County General Plan 2000. The parcel is located approximately 6 miles north of Hallelujah Junction off of Hwy 395. A.P.N. 145-030-018-000. Staff Contact: Cortney Flather, Natural Resources Technician.

The Lassen County Department of Planning and Building Services finds as follows:

1. The applicant is proposing to include mitigation measures associated with the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*), a rare plant rank 2B.2 meaning rare, threatened, or endangered in California while maintaining all other requirements of approved Reclamation Plan #95004.
2. The Lassen County Planning Commission approved the original Reclamation Plan #95004 on March 8, 1995.
3. The Lassen County Director of Planning and Building Services has determined that this project is a minor amendment pursuant to Lassen County Code, Section 9.60.040(b) and does not constitute a substantial deviation pursuant to California Code of Regulations, Section 3502(d).
4. The Lassen County Director of Planning and Building Services has determined that further environmental review is not required for the proposed amendment given additional measures will be put in place to protect the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*).

5. The project is not subject to the California Environmental Quality Act (CEQA) pursuant to Section 15162 of the *CEQA Guidelines*.
6. The California Department of Conservation, Division of Mine Reclamation (DMR), was sent notice on January 11, 2022 of the Minor Amendment being processed by Lassen County, acting as lead agency. A no comment letter from DMR was received on February 2, 2022.
7. Lassen County Code, Chapter 18.112.020 establishes the process for the approval of amendments to existing Use Permits and Reclamation Plans.
8. The Department of Planning and Building Services reviewed the proposed minor amendment and has found that it meets all provisions of the Surface Mining and Reclamation Act (SMARA) and Lassen County Code, Chapter 9.60.
9. The County's Technical Advisory Committee (TAC) is charged with the review of Reclamation Plans pursuant to Lassen County Code Chapter 9.60.060(c), and Chapter 9.60.040 requires that minor amendments be processed pursuant to Chapter 18.112, which requires review of an amendment by TAC.
10. The Planning Commission, as the primary decision-making body for Reclamation Plans and amendments thereto, will determine if this project is consistent with the *Lassen County General Plan, 2000*; the *Lassen County Land Use Element*, *Lassen County Natural Resource Element*; and any other pertinent policies.
11. Lassen County Code, Section 18.112.100 requires that the Planning Commission make the following findings for the approval or denial of a Use Permit application:
 - i. That the project will or will not, under the circumstances of the particular case, be detrimental to the health, safety, peace, morals, comfort and general welfare of persons residing or working in the neighborhood of such use, nor be detrimental or injurious to property and improvements in the neighborhood or to the general welfare.
 - ii. That the project is or is not consistent with the Lassen County general plan, or any applicable area plan or resource plan adopted as part of the general plan.

The Lassen County Department of Planning and Building Services recommends the following conditions be placed upon the project if approved:

1. All requirements and conditions of the previously approved Reclamation Plan #95004 remain applicable, excepting the changes addressed in Minor Amendment #2021-001.

LASSEN COUNTY
APPLICATION FOR MINOR AMENDMENT TO SURFACE MINING USE PERMIT,
RECLAMATION PLAN AND/OR FINANCIAL ASSURANCE

1. APPLICANT INFORMATION:

RECEIVED

Name David McMurtry, President, Geofortis Minerals

Address 30 South Tooele Blvd., Tooele, UT 84074

DEC 14 2021

Contact Telephone Number 925-348-3535

Signature: *David McMurtry*

Date: 12/13/21

LASSEN COUNTY DEPARTMENT OF
PLANNING AND BUILDING SERVICES

2. PROPERTY OWNER INFORMATION: (If different than applicant, original signature of record owner, acknowledging and authorizing this application must appear below)

Name Bureau of Land Management

Address 5565 Morgan Mill Road, Carson City, NV 89701

Contact Telephone Number 775-885-6000

Signature: _____

Date: _____

3. OWNER OF MINERAL RIGHTS INFORMATION: (If different than the property owner, the record owner of mineral rights must sign below)

Name Interest Income Partners

Address 10D Yellow Ferry Harbor, Sausalito, CA 94965

Contact Telephone Number 415-332-1440

Signature: *Christopher Ellis*

Date: 12/13/2021

4. MINE OPERATOR INFORMATION:

Name Geofortis Minerals

Address 30 South Tooele Blvd., Tooele, UT 84704

Contact Telephone Number 925-348-3535

5. ASSESSORS PARCEL NUMBER(S) (Contact the County Assessor's office for Parcel Numbers and Maps. Phone (530) 251-8241)

~~145-03-19~~ 145-030-018-000

6. LEGAL DESCRIPTION OF PROPERTY (attach copy of deed):

Section 11, Township 23 North, Range 17 East, MDB&M

LASSEN COUNTY
MINOR AMENDMENT APPLICATION
PAGE 2 OF 2

7. PROPOSED AMENDMENTS TO THE APPROVED MINING OPERATIONS
(Describe in detail the proposed changes to the mining operation including changes in acreage to be disturbed, new equipment, changes in processing, etc. attach additional pages as needed. Note: Revised site plans, cross sections, etc. must be submitted if the proposed amendment(s) result in changes to the internal layout or footprint of the mine):

No changes.

8. PROPOSED AMENDMENTS TO THE APPROVED RECLAMATION PLAN
(Describe in detail all changes to the reclamation plan resulting from, or in addition to, the changes proposed in the mining operation, including removal of new equipment, reclamation treatments, monitoring, etc. Attach additional pages and maps as needed):

The reclamation plan is amended to address the White Woolly Buckwheat. All individual plants within the mine area will be transplanted to a project nursery for replanting during reclamation. Seeds from plants not transplanted will be collected for seeding during reclamation. Mine workers will be trained to protect the species.

9. RECLAMATION COST ESTIMATE Prepare and attach a revised Reclamation Cost Estimate addressing all changes proposed:

This amendment was addressed in the 2021 FACE submitted to Lassen County.

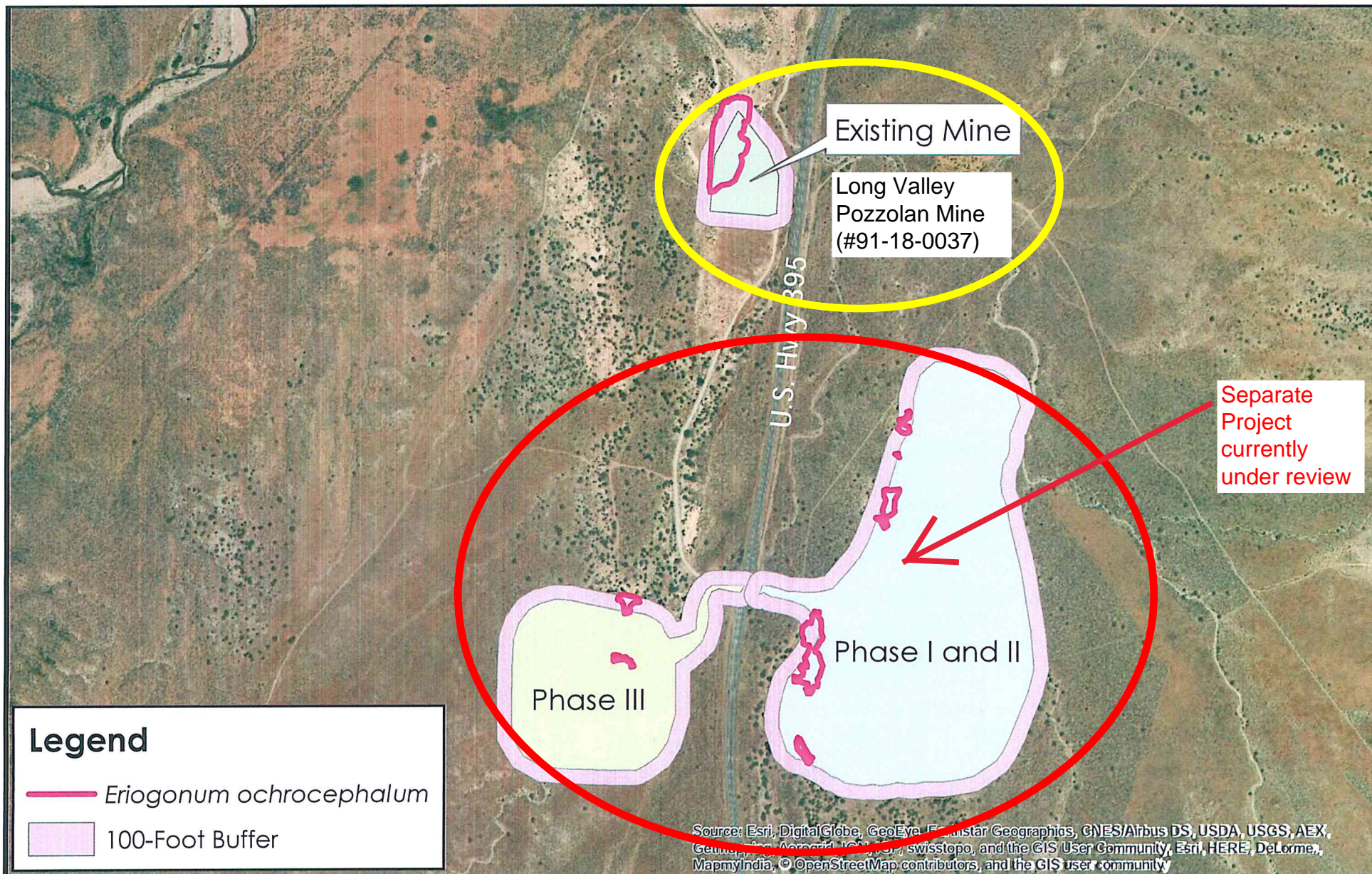


Figure 8 - Locations of
Eriogonum ochrocephalum Populations
 Geofortis Mines
 Lassen County, CA

0 500 1,000 2,000 3,000
 Feet

bec environmental, inc.
 Environmental Services



Geofortis Minerals LLC Seed Collection Protocol March 2022

In support of the development of the mining operation proposed by Geofortis Minerals LLC (Geofortis), the collection of wild seed from existing stands of White Woolly Buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*) has been proposed in the mining plans submitted to Lassen County and in the Plans of Operations submitted to the Bureau of Land Management. This document provides details on how the seed collection will be performed.

The majority of the details of this plan are described in the Woody Plant Seed Manual, published by the United States Department of Agriculture (USDA Agricultural Handbook 727, April 2008). This handbook is directed at the those involved in the collection and sale of seeds, production of nursery stock, or planting itself in support of commercial forest products, planting for wildlife food, watershed protection, urban environmental improvement, ornamental enhancement, wetlands mitigation, and carbon sequestration.

Geofortis is proposing to continue operation of an existing, permitted mine on approximately 5 acres of previously disturbed land on the west side of Highway 395, as well as the establishment of a new mine with approximately 85 acres of new disturbance. In the new mine, Phases I and II are on the east side of the Highway, while Phase III is on the west side of the Highway, south of the existing mine. In support of permits from the Bureau of Land Management (BLM) and Lassen County (County), a Biological Resources Report was prepared by BEC Environmental Inc. (BEC, 2020).

BEC Report Findings

The Woodland habitat overstory was dominated by *Juniperus osterosperma* (Utah juniper) with scattered *Pinus jeffreyi* (Jeffrey pines). The understory and the areas between trees were similar to the Shrubland, dominated by *Artemisia tridentata* ssp. *tridentata* (big sagebrush). Exposed, white, sparsely vegetated soil areas are present within Woodland habitats, along the northwestern facing slope of Phase I and II, flat and eastern facing slopes in the central portion of Phase III, and on the cut slopes of the existing mine site. These areas contained a substance consistent in appearance and feel with clay within the top layer and correlate with the following soil types: Corral-Glenbrook complex, 15 to 50 percent slopes; Rough broken land; and Barnard stony sandy loam, 2 to 15 percent slopes soil types. These areas were dominated by *Penstemon speciosus* (showy penstemon) and buckwheat species including *Eriogonum microtheca* var. *ambiguum* (yellow-flowered buckwheat), *Eriogonum caespitosum* (matted wild buckwheat), and *Eriogonum ochrocephalum* var. *ochrocephalum* (white woolly buckwheat). At the southeastern end of Phase I and II and central areas of Phase III, similar areas were present, but contained more exposed gravel on the surface. The primary vegetation in these areas was sparsely scattered *Streptanthus cordatus* (heartleaf twistflower), *Penstemon speciosus* (showy penstemon), *Cordylanthus ramosus* (cushy bird's beak), and *Juncus balticus* (Baltic rush).

Approximately 5,800 individuals of *Eriogonum ochrocephalum* var. *ochrocephalum* (white woolly buckwheat) documented within the Project area, including proposed project and buffer area. The population by Project Area is provided in the table below. Due to the matted growth form, it was difficult to discern what an individual plant was when the plants formed a large mat; therefore, for purposes of this survey, the plant was considered an individual as a seedling or matted growth form if it was separated from another individual or matted growth form by bare soil or another species of plant. All populations contained individuals of all phenotypic stages including vegetative, flowering and seeding. In all project areas, this species occurs on eroded or areas where the topsoil has been removed to expose the subsoils composed of high clay-like content, providing favorable growing conditions for white woolly buckwheat.

Table1: *Eriogonum ochrocephalum* var. *ochrocephalum* Populations by Project Area

Project Area	Population #	Estimated # individuals	% in Project Area	% in Buffer
Phase I & II	1	175	95	5
Phase I & II	2	4	50	50
Phase I & II	3	75	5	95
Phase I & II	4	1500	50	50
Phase I & II	5	45	100	0
Existing Mine	6	3500	50	50
Phase III	7	500	10	90
Phase III	8	50	100	0

As an environmental protection measure, it is recommended that prior to land disturbance that Geofortis transplant the existing individual plants within the mine footprint to an onsite nursery and prior to transplanting, wild seed from the existing plants be collected. This document details the seed collection.

The USDA Woody Seed Manual describes the Buckwheat family as “important pioneer plants after natural disturbance” and “useful for erosion control and for revegetation of anthropogenically disturbed sites”. The large number of individual plants in the previously disturbed mine site show the hardiness of the plants.

Seed Collection

Due to the small area to be collected, the seeds will be collected by hand-stripping. The window of opportunity for seed collection is rather wide as the fruits usually persist for two to three weeks after maturity (Stevens et. al., 1996). The seed collection will occur in the spring to early summer. After collection and drying, the material can be threshed and cleaned with a fanning mill. Due to the small amount of seed that is expected to be collected, cleaning can be performed by hand with a screen or rubbing board.

Seed Storage

Stevens et al. (1996) suggest that the Buckwheat seeds exhibit orthodox storage behavior and this would indicate that the seeds should be dried to 10% moisture or less and then stored at subfreezing temperatures. This would suggest a 10 to 15 year storage time is reasonable with high viability. Since the revegetation of the mine site is proposed to be concurrent with mining operation, this storage time would allow for seeding within this time frame.

Seeding

The USDA Woody Plant Seed Manual suggest that Wild-Buckwheats are readily established from direct seeding. They are established best when seeded to a depth of 2 to 5 mm and since the proposed seeding areas will be small, this can be done by hand. Seeding will occur in late fall or early winter.

Monitoring

The revegetation will be monitored during the mining operation and for 5 years after mining has ceased. The revegetation of the White Woolly Buckwheat will be considered successful when the number of individual plants established is equal to or greater than the number of plants identified in the BEC report.

Attachments

Portion of Appendix E from USDA Handbook 727, *Polygonaceae-Buckwheat Family*

References

BEC Environmental, Inc., Biological Survey Report, *Geofortis Minerals Bureau of Land Management Pozzolan Minerals Claims, Long Valley, Lassen County, California*, Revised May 13, 2020.

Stevens, R. Jorgensen et. al., *Forb and Seed Production Guide for Utah*, Logan, Utah State University Extension Service, 1996.

United States Department of Agriculture, *The Woody Plant Seed Manual, Agricultural Handbook 727*, April 2008.

Polygonaceae—Buckwheat family

***Eriogonum* Michx.**

wild-buckwheat, buckwheatbrush

Susan E. Meyer

Dr. Meyer is a research ecologist at the USDA Forest Service's Rocky Mountain Research Station, Shrub Sciences Laboratory, Provo, Utah

Growth habit, occurrence, and uses. The North American genus *Eriogonum*—wild-buckwheat, also buckwheatbrush—is made up of about 200 species of annual and perennial herbs and shrubs, most of which are found in the West. About half are woody, at least at the base. The habit of the woody species may be either (a) truly shrubby, (b) subshrubby, with annual renewal of upper shoots, or (c) pulvinate (mat-forming), with the woody shoots condensed into an above-ground caudex. The usually evergreen leaves are borne alternately and may be predominantly basal or borne along the stems. There may be whorls of leaves on the flowering stalks. The leaves are usually tomentose, at least below, and the stem nodes are often tomentose as well. The often-flat-topped inflorescences are usually borne above the leafy part of the plant and are conspicuous and characteristic even after seed dispersal.

Most plant communities in the West contain at least 1 species of woody wild-buckwheat (table 1). Some species are widely distributed and of wide ecological amplitude (for example, sulfurflower buckwheat brush), whereas others are narrowly restricted geographically and often edaphically as well (for example, pretty buckwheat brush). Wild-buckwheat species are often important pioneer plants after natural disturbance, and their presence may facilitate the establishment of later-successional species. This makes them useful for erosion control and for revegetation of anthropogenically disturbed sites such as mined land and highway rights-of-way (Ratliff 1974; Zamora 1994). Some species are important as browse plants for wild ungulates, particularly in the early spring when their evergreen habit makes them more highly nutritive than many other spring browse species (Tiedemann and Driver 1983; Tiedemann and others 1997). Some wild-buckwheat species are important bee plants. In California, Mojave buckwheatbrush has been rated third in importance for honey production, exceeded only by 2 native *Salvia* species (Kay and others 1977). Many wild-buckwheat species also have tremendous potential as easily grown, drought-tolerant ornamentals. Their interesting forms and leaf textures combined with masses of showy,

long-lasting flowers make them excellent candidates for home xeriscapes. Named varieties that have been released are 'Sierra' sulfurflower wild-buckwheat (Stevens and others 1996) and 'Umatilla' snow wild-buckwheat (Tiedemann and others 1997).

Flowering and fruiting. The small, usually perfect flowers of wild-buckwheat are borne in clusters within cup-like or cylindrical involucre that are variously solitary or arrayed in capitate, cymose, or panicle inflorescences. Each flower consists of a perianth with 9 stamens inserted at its base and a superior 1-celled and 1-seeded ovary. The perianth is made up of 6 fused segments in 2 whorls of 3. The ovary ripens in fruit into a usually 3-angled achene (figures 1 and 2). This achene is held more or less tightly within the perianth, depending on the species. For example, in snow wild-buckwheat the achenes fall free of the perianth at dispersal, whereas in Shockley wild-buckwheat the woolly perianth with the achene enclosed is the dispersal unit. The ovule within the seed is anatropous, so that the radicle end is pointing outward and upward. This makes it possible for germination and emergence to take place with the perianth still attached.

Wild-buckwheat species may flower at any time from early spring to fall, depending on species and habitat. Within a given habitat, species may bloom in succession. For example, at mid-elevation in central Utah, cushion wild-buckwheat blooms in spring, followed by James wild-buckwheat in early to midsummer, and finally by lace buckwheatbrush in late summer and fall. The bloom time for any species usually lasts well over a month, and the plants are almost as showy in fruit as in flower. The flowers are insect-pollinated.

Seed collection, cleaning, and storage. The window of opportunity for seed collection of wild-buckweats is often rather wide, as the fruits usually persist on the plant for 2 to 3 weeks after maturity (Stevens and others 1996). When achenes are mature, the perianths dry and often change color, turning brown or rusty. At this point, the achenes can be harvested by hand-stripping or by beating them into hop-

Table 1— *Eriogonum*, wild-buckwheat: habit, habitat, and geographic range

Species	Common name(s)*	Habitat	Range
SHRUBS			
<i>E. corymbosum</i> Benth.	lace buckwheatbrush, buckwheatbrush, crisp-leaf buckwheat	Desert shrub, pinyon juniper, mostly on shales	Colorado Plateau, Uinta Basin, & adjacent areas
<i>E. fasciculatum</i> Benth.	Mojave buckwheatbrush, California buckwheatbrush, flat-top buckwheatbrush	Warm desert shrub, coastal sage scrub, chaparral, pinyon-juniper	Mojave & Colorado Deserts & coastal & cismontane S California
<i>E. heermanni</i> Dur. & Hilg.	Heermann buckwheatbrush, molecule model plant	Warm desert shrub, mostly on rock outcrops	Mojave Desert
SUBSHRUBS			
<i>E. brevicaulis</i> Nutt.	shortstem wild-buckwheat	Open, barren hills, mountain brush to alpine	Central Rocky Mtns of Wyoming, Utah & Idaho
<i>E. heracleoides</i> Nutt.	Wyeth wild-buckwheat, parsnipflower buckwheat	Sagebrush-grassland to aspen & Douglas-fir	N Rocky Mtns from BC to central Utah
<i>E. jamesii</i> Benth.	James wild-buckwheat	Desert shrub to mountain brush & ponderosa pine	S Rocky Mtns S into N Mexico
<i>E. niveum</i> Dougl. ex Benth. <i>E. umbellatum</i> Torr.	snow wild-buckwheat, snow eriogonum sulfurflower wild-buckwheat, sulfur wildbuckwheat	Sagebrush-grassland Sagebrush-grassland to spruce-fir	Columbia River Plateau Widespread in W North America
PULVINATE / MAT-FORMING			
<i>E. bicolor</i> M.E. Jones <i>E. ovalifolium</i> Nutt.	pretty buckwheatbrush cushion wild-buckwheat, roundleaf buckwheat	Cold desert shrub, on Mancos Shale Wide range, from cold desert to alpine	Central Utah Widespread, W North America
<i>E. shockleyi</i> S. Wats.	Shockley wild-buckwheat, mat buckwheat	Desert shrub to pinyon-juniper	Idaho & Colorado to SE California, Arizona, & New Mexico

Source: Meyer and Paulsen (2000).

Note: The genus *Eriogonum* is not that of the true, domesticated buckwheat, hence the common names of wild-buckwheat and buckwheatbrush.

Figure 1—*Eriogonum fasciculatum*, Mojave buckwheatbrush: achene in calyx (left) and achene without calyx (right).

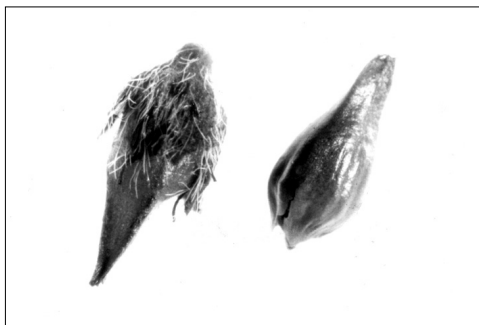
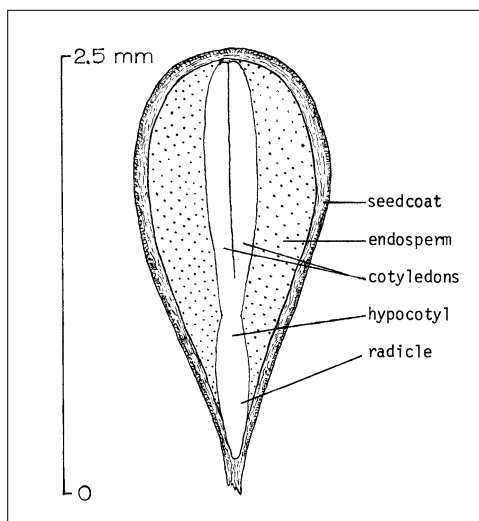


Figure 2—*Eriogonum fasciculatum*, Mojave buckwheatbrush: longitudinal section through a seed excised from an achene.



pers or other containers. Combine harvesting has proven successful for sulflower wild-buckwheat in seed production fields (Stevens and others 1996). The harvested material will include achenes, perianths, involucre, and inflorescence branches. After the material is dried thoroughly, it may be threshed in a barley de-bearder and cleaned with a fanning mill. Species with tightly held achenes may require hand-rubbing through screens or on a rubbing board, which is also an alternative cleaning method for small seedlots of any species. The material should not be handled too rough-

ly, as the radicle end of the achene is often slender and easily damaged. Achene weights vary both among and within species but are usually in the range of 350 to 1,360/g (10,000 to 39,000/oz) (table 2). Seed quality is also variable (table 2).

There are few published reports of viability evaluation beyond germination percentages obtained without pretreatment, which may underestimate viability if there is a dormant fraction. Stevens and others (1996) report that viabilities of >90% may be expected from sulflower and Wyeth wild-buckwheats in an agronomic setting if seeds are harvested when fully mature; these values are comparable to those for wild-collected lots of many species (table 2). Insects may damage 10 to 35% of the fruits prior to harvest, but damaged seeds are normally eliminated in cleaning. Post-harvest damage from insect infestations is also possible (Stevens and others 1996). There is little information on maintenance of viability during storage for species of wild-buckwheat. Stevens and others (1996) report high viability for sulflower and Wyeth wild-buckwheats during 10 to 15 years in warehouse storage, which would indicate orthodox storage behavior. Other species are perhaps comparable.

Seed germination and testing. Germination is epigeal (figure 3). Seedlots of many species of wild-buckwheats contain at least a fraction that will germinate without any pretreatment (tables 2 and 3) (Young 1989). The size of this fraction depends on species and on the particular lot involved. Stevens and others (1996) report that seeds of sulflower and Wyeth wild-buckwheats lose dormancy during short periods of dry storage, and Mojave buckwheatbrush seeds are also reported to dry after-ripen (Kay and others 1977). Dormant seeds of most species we have examined lose dormancy during chilling at 1 °C for periods of 8 to 12 weeks (table 3).

To date there are no formal procedures for evaluating the seed quality of wild-buckwheat species, and tetrazolium (TZ) staining is probably the procedure most commonly employed. To evaluate using TZ, achenes are soaked overnight in water, clipped through both pericarp and seed coat at the cotyledon end (the wide end or hilum), and placed in 1% TZ solution for several hours at room temperature. Achenes are bisected longitudinally for evaluation (Belcher 1985).

Field seeding and nursery practice. Wild-buckwheats are generally readily established from direct seeding (Ratliff 1974; Stevens and others 1996; Tiedemann and Driver 1983; Zamora 1994). They establish best when seeded at a depth of 2 to 5 mm ($1/16$ to $3/16$ in), either by drilling or by broadcasting followed by covering (for example, raking). Seeding should take place before the season of maximum precipitation, which is generally fall or early winter in

Table 2—*Eriogonum*, wild-buckwheat: achene weights and typical viability percentages

Species	Achenes/weight		Viability	
	/g	/lb	%	Test
SHRUBS				
<i>E. corymbosum</i>	900	410,000	93	Post-chilling cut test
	2,000	900,000	—	—
<i>E. fasciculatum</i>	1,330	600,000	4–34	Germination %, no pretreatment
	520–1,085	236,000–490,000	20–46	Germination %, no pretreatment
<i>E. heermannii</i>	660	300,000	95	Post-chilling cut test
SUBSHRUBS				
<i>E. brevicaulle</i>	700	320,000	84	Post-chilling cut test
<i>E. heracleoides</i>	350	160,000	95	Post-chilling cut test
	310	141,000	87	Post-chilling cut test
<i>E. jamesii</i>	350	160,000	—	—
<i>E. niveum</i>	1,290–1,360	585,000–620,000	52–72	Germination %; no pretreatment
<i>E. umbellatum</i>	470	213,000	86	Post-chilling cut test
	265	120,000	—	—
PULVINATE/MAT-FORMING				
<i>E. bicolor</i>	960	436,000	47	Post-chilling cut test
<i>E. ovalifolium</i>	990	450,000	95	Post-chilling cut test
<i>E. shockleyi</i>	750	340,000	86	Post-chilling cut test

Sources: Belcher (1985), Kay and others (1977), Meyer and Paulsen (2000), Stevens and others (1996), Tiedemann and Driver (1983).

* Post-chilling cut tests (AOA 1996) are considered accurate for recently harvested seedlots; however, tetrazolium staining (TZ) is required for seedlots stored for more than 2 years.

Table 3—*Eriogonum*, wild-buckwheat: germination percentages

Species	Samples	Germination* (% of total viable seeds)				
		No chill	4 weeks	8 weeks	12 weeks	16 weeks
<i>E. brevicaulle</i>	2	3	28	65	86	96
<i>E. corymbosum</i>	3	28	79	100	100	100
<i>E. heracleoides</i>	3	4	11	30	55	77
<i>E. jamesii</i>	2	54	79	91	94	100
<i>E. ovalifolium</i>	2	22	74	98	98	100
<i>E. umbellatum</i>	4	7	30	74	99	100

Source: Meyer and Paulsen (2000).

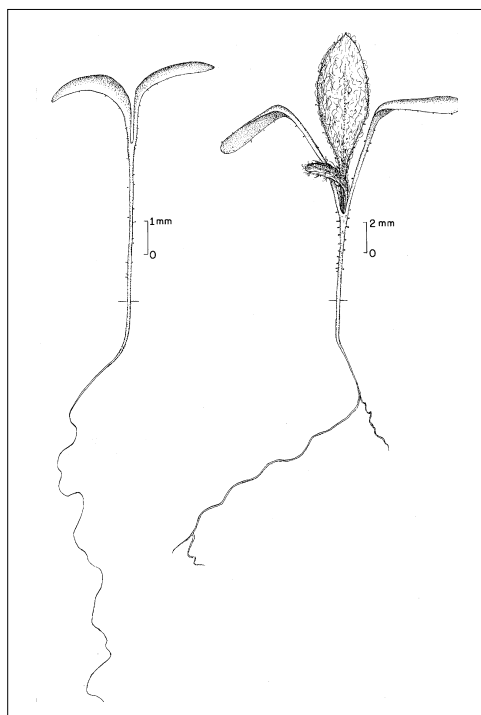
* Germination percentage determined after 0 to 16 weeks of chilling at 1 °C followed by 4 weeks of incubation at 10/20 °C

northern rainfall regions and midsummer in southern rainfall regions. Most wild-buckwheats are early seral and do not compete well with heavy stands of perennial grasses. Wild-buckwheats planted for field seed production are reported to reach 30 to 50% of maximum production, 200 to 400 kg/ha (180 to 360 lb/ac), the second year after planting (Stevens and others 1996).

Most species of wild-buckwheat are also easily propagated in a nursery setting. Shaw (1984) reported that Wyeth wild-buckwheat may be successfully produced as 1+0 bare-root stock. Because of the taprooted habit, plants must be

lifted carefully. Other woody wild-buckwheats could probably be produced as bareroot stock, but no published information is available. Wild-buckwheats may also be produced as container stock; book planters or tube containers such as those used for producing conifer seedlings are most appropriate. Nondormant lots may be direct-sown, whereas seedlots requiring chilling may be sown as chilled seed or as young germlings (Landis and Simonich 1984). Seedlings of many species grow rapidly and should not be held in small containers for more than a few months. Many species flower the first year and may even form flowering stalks while still in small tube containers.

Figure 3—*Eriogonum fasciculatum*, Mojave buckwheat-brush: very young seedling (left) and older seedling (right).



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- Zamora BA. 1994. Use of *Eriogonum* for reclamation. *Hortus Northwest* 5(1): 9–11, 47.

County of Lassen

Department of Planning and Building Services

- Planning

- Building Permits

- Code Enforcement

- Surveyor

- Surface Mining

October 15, 2021

Maurice L. Anderson, *Director*

707 Nevada Street, Suite 5

Susanville, CA 96130-3912

Phone: 530 251-8269

Fax: 530 251-8373

email: landuse@co.lassen.ca.us

website: www.co.lassen.ca.us

Division of Mine Reclamation

801 K Street MS 09-06

Sacramento, CA 95814

Zoning & Building

Inspection Requests

Phone: 530 257-5263

Re: 2021 Financial Assurance Cost Estimate, CA Mine # 91-18-0037

To whom it may concern:

The Lassen County Department of Planning and Building Services received the attached 2021 Financial Assurance Cost Estimate (FACE) for the above referenced mine. The FACE is in the amount of \$59,756.00, which is an increase of \$9,133.55 from the previous submission, due primarily to costs associated with protection measures for the white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*), a rare plant that has been found on site.

The FACE has been found adequate by the lead agency and is sufficient to complete reclamation of the mine according to the approved reclamation plan. In accordance with PRC § 2773.4(d) and CCR § 3805, the lead agency is submitting the FACE for review. If no comment is received from the Division of Mine Reclamation (DMR) within the 45-day review period, ending November 29, 2021, the Lead agency will send a 30 days' notice to approve the 2021 FACE pursuant to PRC § 2773.4(d)(5)(D)(iii).

Approval of an annual FACE, in the absence of comment from DMR, shall serve as sufficient authorization for the adjustment of financial assurances, as the total amount of financial assurances required shall not exceed the amount necessary to perform reclamation, pursuant to Public Resources Code § 2773.1(a)(5).

If you have any questions, please contact Cortney Flather, Natural Resources Technician, at (530) 251-8271.

Sincerely,

Sincerely,

Maurice L. Anderson
Director

MLA:clf

Enclosure

cc: David McMurtry, Lonnie Roy

BETA Excel Version of the FACE-1 Financial Assurance Cost Estimate Form.
Please contact DMR if errors are found in this document.

FINANCIAL ASSURANCE COST ESTIMATE FOR

Long Valley Pozzolon Mine

(Mine Name)

CA Mine ID # 91- 18-0037

Reclamation Plan #/Name 95004

<p>Prepared by: (Name & Affiliation)</p> <p><u>Lonnie Roy</u></p> <p><u>Broadbent & Associates, Inc.</u></p> <p><u>8 West Pacific Avenue, Henderson, NV 89015</u></p> <p>Date: <u>10/14/21</u></p>	<p>This financial assurance cost estimate prepared and submitted pursuant to (choose one) :</p> <p><input type="checkbox"/> A new or amended reclamation plan approved on (Date): _____</p> <p><input type="checkbox"/> An annual mine inspection performed on (Date): _____</p> <p><input checked="" type="checkbox"/> Other: Please Specify: <u>Annual Update</u></p>
--	---

Most Recent Approved Financial Assurance Cost Estimate

Date: 10/10/20

Amount: \$ 50,622.45

Amount of existing Financial Assurance Mechanism(s)

Date: 6/6/19

Amount: \$ 48,657.15

RECEIVED

OCT 15 2021

LASSEN COUNTY DEPARTMENT OF
PLANNING AND BUILDING SERVICES

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number

95004

Permits and/or Environmental Documents Approved as, or Conditional upon, the Reclamation Plan

Lassen County Use Permit 66-8, October 11, 1966.

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands

☒

Wage Rates used in Cost Estimate* *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (<http://www.dir.ca.gov/OPRL/PWD/index.htm>) with employer labor surcharge added, or greater)*

See attached Exhibit 1-Section 1

Equipment Rates used in Cost Estimates* *(use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (<http://www.dot.ca.gov/hq/construc/equipmnt.html>) or other publicly available and verifiable local rates)*

☒ California Department of Transportation, Division of Construction, *Labor Surcharge and Equipment Rental Rates*, effective April 1, 2021 through March 31, 2022.

Equipment Production Rates used in Cost Estimate *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

☒ Caterpillar Performance Handbook and past experience. This is a small job.

**Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

(add additional pages as needed)

II. Description of Current Site Conditions

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The project area has been previously disturbed. The footprint of the proposed mining work would not increase the disturbed area. The maximum depth of the proposed pit is to elevation 4700. The pit will proceed from the existing benches to the east and south. No National Forest System or State lands will be impacted by the proposed project. Existing access and haul roads will be used for this project. No new haul roads will be constructed. The proposed pit grading does not affect the access road as the proposed grading ends above and 30 to 50 feet from the road.

Vegetation is limited in the disturbed area and limited erosion has occurred.

III. Description of Anticipated Site Conditions (12 months from date of estimate)

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

Site aerial disturbance will be the same, but the proposed highwall (slope) will begin to push towards the south and west.

IV. Description/Justification of Cost Increase/Decrease

Cost factors have changed. Equipment costs have decreased and labor costs have increased. Protections for the White Woolley Buckwheat have been added. A reclamation plan amendment is being prepared.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

Currently there are not structures or equipment on the site.

Reclamation Plan Performance Standard (End Use):

The site will be used for grazing and open space recreation.

Describe tasks:

All mining equipment will be mobile and will be owned by the Contractor under contract to Geofortis. Contractor(s) will removed their equipment, if any. Contractor(s) have not been determined at this point.

Equipment on site wholly owned by operator?:

(if no, please provide the name/s and contact information for any lien holder)

☐ YES

☒ NO

28

(add additional pages as needed)

V. PLANT STRUCTURES & EQUIPMENT REMOVAL

(↑ Describe Reclamation Activity Being Estimated)

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
Total Equipment Cost for this Task =				\$0

B. Labor - List all labor categories to complete identified task

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
		0.0%		
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
Total Labor Cost for this Task =				\$0

C. Demolition - List all structures and equipment to be dismantled or demolished and removed from site

Structure/Equipment to be removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost (\$)
		0.00	\$0.00	\$0.00	\$0
		0.00	\$0.00	\$0.00	\$0
		0.00	\$0.00	\$0.00	\$0
		0.00	\$0.00	\$0.00	\$0
		0.00	\$0.00	\$0.00	\$0
Total Materials Cost for this Task =					\$0

D. Total Direct Cost of Structure and Equipment Removal (Total A+B+C)

Equipment Cost + Labor Cost + Demolition Cost = \$0

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation)

Net Salvage Value = \$ 0.00

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E)

Total Cost of Structure and Equipment Removal = \$0

NOTE: Above Total Cost will display \$0.00 if net of entered removal costs and salvage value is negative.

*Note: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

The project area has been previously disturbed. The footprint of the proposed mining work would not increase the disturbed area. The maximum depth of the proposed pit is to elevation 4700. The pit will proceed from the existing benches to the east and south. No National Forest System or State lands will be impacted by the proposed project. Existing access and haul roads will be used for this project. No new haul roads will be constructed. The proposed pit grading does not affect the access road as the proposed grading ends above and 30 to 50 feet from the road.

Vegetation is limited in the disturbed area and limited erosion has occurred.

Reclamation Plan Performance Standard (End Use):

The site will be used for grazing and open space recreation.

Describe tasks, methods, equipment, etc:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

See attached Exhibit 1-Section 4

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distance (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

The pit floor will be approximately 4 acres. The slopes to be contoured will be less than 1 acre with a height of approximately 40 feet. Topsoil/overburden is estimated at 600 cy. All reclamation materials will remain onsite limiting hauling distances.

(add additional pages as needed)

VI. PRIMARY RECLAMATION ACTIVITY

(↑ Describe Reclamation Activity Being Estimated)

Acres:	5	Overburden (cy):	300
Haul Distance (ft):	500	Topsoil (cy):	300
Production Rate (cy/hr):		(NOTE: no automatic calculations occur to data in this upper table)	

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
CAT14 H Motor Grader	HR	\$122.82	11.0	\$1,351
966G Loader	HR	\$148.48	4.0	\$594
Truck and Trailer Lowboy for Mod/Demob (Lowbed C8 and 27216 Truck)	HR	\$114.83	12.0	\$1,378
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
Total Equipment Cost for this Task =				\$3,323

B. Labor - List all labor categories to complete identified tasks

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
		0.0%		
Teamster for Lowboy, All locations Group 5	\$67.87	\$0.00	12.0	\$814
Operator for Motor Grader and Heavy Tractor, Area 1, Group 1	\$73.35	\$0.00	15.0	\$1,100
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
Total Labor Cost for this Task =				\$1,915

C. Materials - List all materials required to complete identified task

Item	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)
		0.0%		
	\$0.00	\$0.00	4.0	\$0
	\$0.00	\$0.00	35.0	\$0
	\$0.00	\$0.00	140.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
Total Materials Cost for this Task =				\$0

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = \$5,238

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department.

Current Site Condition:

The project area has been previously disturbed. The footprint of the proposed mining work would not increase the disturbed area. The maximum depth of the proposed pit is to elevation 4700. The pit will proceed from the existing benches to the east and south. No National Forest System or State lands will be impacted by the proposed project. Existing access and haul roads will be used for this project. No new haul roads will be constructed. The proposed pit grading does not affect the access road as the proposed grading ends above and 30 to 50 feet from the road.

Vegetation is limited in the disturbed area and limited erosion has occurred.

Reclamation Plan Performance Standard (End Use):

The site will be used for grazing and open space recreation.

Describe Tasks:

See attachment Exhibit 1-Section 5

(add additional pages as needed)

VII. REVEGETATION (use multiple sheets as needed)

Methods to be used:

(↑ Describe Revegetation Activity Being Estimated)

A. Equipment - List equipment to complete identified task. For large reclamation projects, separate mine areas.

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
Hydromulcher (RS Means \$0.10 SY)	SY	\$0.10	1258.0	\$125.80
Lowboy (delivery and removal of equipment)	hr	\$114.83	6.0	\$688.98
Tractor with disc and drill (RS Means \$169.36/ac)	acre	\$169.36	4.2	\$711.43
		\$0.00	0.0	\$0.00
		\$0.00	0.0	\$0.00
		\$0.00	0.0	\$0.00
Total Equipment Cost for this Task =				\$1,526.21

B. Labor - List all labor categories to complete identified task.

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge /HR (where applicable) (enter % of wage)	# of Hours	Cost (\$)
		0.0%		
Gen. Landscape Labor, Supervisor (Area 2, Group 7)	\$56.51	\$0.00	32.0	\$1,808.32
Gen. Landscape Labor, Entry (Area 2, Group 7)	\$49.54	\$0.00	118.0	\$5,845.72
Labor Hydromulch (RS Means \$0.17/SY)	\$0.17	\$0.00	1258.0	\$213.86
Labor drill seeding (RS Means \$319/acre)	\$319.00	\$0.00	4.2	\$1,340.00
Teamster Group 5, Lowboy movement	\$67.87	\$0.00	6.0	\$407.22
Total Labor Cost for this Task =				\$9,615.12

C. Materials - List all materials required to complete identified task

Item/Plant Species	Unit of measure	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)
			0.0%		
Seed Mix	acre	\$1,096.50	\$0.00	5.0	\$5,482.50
Trees, 15 gal	each	\$186.00	\$0.00	18.0	\$3,348.00
Shrubs, 5 gal	each	\$35.21	\$0.00	38.0	\$1,338.00
Seed Mix, test plot	acre	\$1,096.50	\$0.00	0.3	\$328.95
Shrubs test plot, 5 gal	each	\$0.00	\$0.00	2.0	\$0.00
Hydro Mulch (RS Means \$1.92/SY)	SY	\$1.92	\$0.00	1,258.0	\$2,415.36
		\$0.00	\$0.00	0.0	\$0.00
		\$0.00	\$0.00	0.0	\$0.00
		\$0.00	\$0.00	0.0	\$0.00
		\$0.00	\$0.00	0.0	\$0.00
Total Materials Cost for this Task =					\$12,913.81

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = \$24,054.03

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e. transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e. decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item/Task	Quantity	\$/Unit	Cost (\$)
Engineering, Design and Construction Plans	1.0	\$4,000.00	\$4,000
Insurance (1.5% of Total Labor Costs)	1.0	\$172.76	\$173
Bond (3% of Total Direct Costs)	1.0	\$834.70	\$835
BLM Indirect Costs	1.0	\$650.00	\$650
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
Total Miscellaneous Costs =			\$5,657

IX. MONITORING COSTS

Monitoring Task	\$/Visit	# of Visits/Year	# of Monitoring Years	Cost (\$)
Annual Monitoring	\$1,200.00	1.0	3.0	\$3,600
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
Total Monitoring Costs =				\$3,600

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V) Total of all Plant Structures & Equipment Removal Costs	\$	0
(VI) Total of all Primary Reclamation Activities Costs	\$	5,238
(VII) Total of all Revegetation Costs	\$	24,054
(VII) Total of all Miscellaneous Costs	\$	5,657
(IX) Total of all Monitoring Costs	\$	3,600
Total of Direct Costs	\$	38,549

XI. SUPERVISION / PROFIT & OVERHEAD / CONTINGENCIES / MOBILIZATION

(A) Supervision (<u>6.4</u> %)	\$	2,470
(B) Profit/Overhead (<u>13.4</u> %)	\$	5,181
(C) Contingencies (<u>10.0</u> %)	\$	3,855
(D) Mobilization (<u>5.0</u> %)	\$	1,927
Total of Indirect Costs	\$	13,413
Total of Direct and Indirect Costs	\$	51,962
(E) Lead Agency and/or Dept. of Conservation Administrative Costs (<u>15%</u>)	\$	7,794
Total Estimated Cost of Reclamation	\$	59,756

2021 Long Valley Pozzolan Mine

ID 91-18-0037

FACE Estimate

Exhibit 1

1. Section I. Wage Rates Used in Cost Estimate: Used Labor Classifications from Wage Determinations Issued Under the General Prevailing Wage Determination Made by the Director of Industrial Relations Pursuant to California Labor Code Part 7, chapter 1, Article 2, Sections 1770, 1773, and 1773.1, Determination Number NC-63-3-75-2021-1, NC-23-261-2021-1, and NC-23-102-1-2021-1. Monitoring consultant is estimated based on current industry standards, and OMR guidance, and is assumed to include applicable payroll taxes and contractor overhead costs.

2. Section I Equipment Rates Used in Cost Estimate: Weekly rental rates calculated as the product of the hourly rental rate and 40 hours. Hourly rental rates are provided for 40-hour weeks. Operating rates from the CalTrans Labor Surcharge and Equipment Rental Rates (effective April 1, 2021-March 31, 2022) were used. Additional information from the RS Means Construction Cost Estimating Tool 2020 was used for specialized equipment.

3. Section I Equipment Production Rates Used in Cost Estimate: All production rates were acquired from the Caterpillar Performance Handbook, Edition 44. Swell Factor may be provided by program user. A factor of 1.3 is a generally accepted industry standard and taken from Thomas J. Glover Pocket Reference, Second Edition, Sequoia Publishing, November 1999.

4. Section VI Primary Reclamation Activity - Describe tasks, methods, equipment, etc.: Regrading and reshaping of disturbed areas will be completed to approximately the surrounding topography. The reclaimed areas will be stable and will not exhibit large rills or gullies, perceptible soil movement or head cutting in drainages, slope instability on or adjacent to the reclaimed area. Fill material will be pulled onto the roadbeds to fill the road cuts and restore the slope to natural contours. Should any drainage be disturbed, they will be re-shaped to approach the pre-construction contours. The resulting channels will be of the same capacity as up and downstream reaches and will be made to prevent erosion and ultimately revegetated. Following completion of earthwork, disturbed areas will be broadcast seeded. Geofortis will conduct concurrent reclamation on previously mined areas where possible to minimize the area of surface disturbance during the development of the Project. Reject materials will be placed over the open pit floor and the limited stockpiled top soil will be graded over the disturbed areas.

The site will not be backfilled. The proposed mining cross section is 2:1 with no benching. Due to the low rainfall levels and typical sparse vegetation, this configuration should be successful. The limited salvaged top soil will be used in selected areas to enhance revegetation. This slope is stable in the material expected to be encountered and will not pose a significant safety risk. All proposed mining is above the water table and a pit lake is not expected to form. Stormwater will be routed around the mining operation and will be in compliance with the SWPPP. There will be no flow toward the pit from the north, south or east. Flow from the west will be managed at the top bench of the mining operation. In areas of high energy, riprap may be required to prevent erosion. In limited, select areas culverts may be necessary. The grading of the pit floor and the natural drainage to the northwest will limit the erosive energy of any stormwater flow.

The access road to the mine operation is not proposed to be reclaimed as part of this operation because it also serves other properties.

Limited topsoil, selected subsoils, or other reject materials suitable as a growth medium will be salvaged from areas to be disturbed, stockpiled initially near the access road and managed for later use in reclamation, and wherever feasible applied directly to re-contoured areas ready for reclamation.

Limited stockpiles will be interim seeded with a BLM/Lassen County approved seed mix. Appropriate BMPs such as hay bales or silt fences will be installed around the stockpiles, if necessary, to prevent surface runoff and runoff. Topsoil stockpiles will be identified and segregated on the ground. Upon completion of mining operations, the topsoil will be used during reclamation of the Project Area. The surface will be revegetated as soon as practicable to reduce further soil erosion.

Labor rates from NC-63-3-75-2021-1, Operating Engineers for Landscape Projects, Group 1, Area 1 (Lassen) and Teamster rates (Group 5) from NC-23-261-1-2021-1. Equipment for Lowboy C and Truck 20216, 14 H Motor Grader and 966G Loader from Labor Surcharge and Equipment Rates, CALTRANS, April 1, 2021 through March 31, 2022.

5. Section VII Revegetation – Describe tasks:

Tasks from August 1996 Revised Plan:

Pit Floor - Topsoil will be disked into compacted surfaces, fertilize as necessary and seeding by drill. Sterile straw mulch will be applied at rate of 2000 pounds per acre where required. Seed mix to be established at time of reclamation in consultation with Fish & Game, SCS and BLM.

Slopes - Hydroseed slopes. Alternate plan if hydroseed is not successful - Trees at 50' intervals, shrubs at 30' intervals assumed for approximately 1/2 of area (0.78 acre).

Assumptions for current estimate provided by Brian Ehler CA F&G 12/31/18:

- Sandberg bluegrass (*Poa secunda* ssp. *sandbergii*) 2.0 lbs
- Idaho fescue (*Festuca idahoensis*) 3.0 lbs
- Indian ricegrass (*Achnatherum hymenoides*) 5.0 lbs
- Bottlebrush squirreltail (*Elymus elymoides*) 5.0 lbs
- Needle and thread (*Hesperostipa comata* ssp. *comata*) 9.0 lbs
- Great basin wildrye (*Leymus cinereus*) 7.0 lbs
- Basin big sagebrush (*Artemisia tridentata* ssp. *tridentata*) 0.5 lbs
- TOTAL: 31.5 lbs

Quote from L&H Seed for this mix - \$1096.50/acre (Sept 2020 email estimate)

The re-contoured slope, approximately 0.78 acre, will be hydroseeded.

Alternate Contingency Plan: Jeffery Pines ($43560 \times 0.78 / (50 \times 50) = 14$) will be randomly placed at 50 ft. intervals. Moana Nursery Quote of \$186 each for 25 Gal (Sept 2020 email estimate)

Sage ($43560 \times 0.78 / (30 \times 30) = 38$) will be randomly placed. Moana Nursery Quote of \$32 for 5 gallon plant (August 2019 estimate). These were not available in 2020 to quote so the 2019 estimate was increase by approximately 10% (\$35.21 each) similar to the cost increase of the pines.)

Test Plot: 10'x10' test plot for seed mix, sage.

Assume 8 hrs labor, 0.03 acres seed & straw.

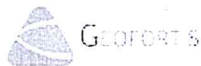
Additional work has been added for protection of the White Woolly Buckwheat (WWB). Prior to land disturbance the WWB existing will be moved to a project nursery. Prior to movement, seeds will be collected from existing plants. During revegetation work, the WWB will be transplanted to the disturbed areas and the collected seeds will be hand seeded into appropriate areas. This work is estimated at 32 hours of supervisory landscape labor and 70 hours of entry level landscape labor.

Some of the equipment needed for the revegetation was not available in other costing references. Costs for the Hydromulcher, Tractor with disc and drill equipment as well as the labor needed to operate the equipment was estimated using RS Means Construction Site Online Estimating Tool for 2020. This is a standard cost estimating reference that is updated annually with costs from most types of construction. The costs are corrected for location and type of project. This referenced was used for some specialized equipment.

From: David McMurtry dmcmurtry@geofortis.com
Subject: FW: reclamation seed
Date: October 2, 2020 at 3:08 PM
To: Lonnie Roy lonnieroy@mac.com

Seed

fyi



dmcmurtry@geofortis.com
www.geofortis.com

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From: Damon Winter <DamonW@lhseeds.com>
Sent: Friday, October 2, 2020 1:19 PM
To: David McMurtry <dmcmurtry@geofortis.com>
Cc: lroy@broadbentinc.com
Subject: RE: reclamation seed

10/2/2020
\$ 1096.50 / AC

David,

Doing well. Good to hear from you.

Today's pricing of this mix is \$1,096.50/acre. Price has spiked due to some shortages that I don't expect (at this time) to continue after new crop becomes available in summer/fall of 2021.

Let me know if you have any further questions.

All the best,

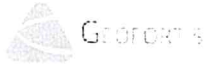
Damon Winter



3930 Moon Road
Connell, WA 99326
509.234.4433 office
509.234.0202 fax
www.lhseeds.com

From: David McMurtry <dmcmurtry@geofortis.com>
Sent: Tuesday, September 29, 2020 9:40 AM

From: David McMurtry <dmcumrtry@geofortis.com>
Subject: FW: ESTIMATE
Date: September 30, 2020 at 8:54 AM
To: Lonnie Roy <lonnieroy@mac.com>



dmcumrtry@geofortis.com
www.geofortis.com

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From: Carrie Leahy <carriel@moananursery.com>
Sent: Wednesday, September 30, 2020 7:24 AM
To: David McMurtry <dmcumrtry@geofortis.com>
Subject: RE: ESTIMATE

Good morning, David. They would be around \$186.

Carrie Leahy
Manager of Contractor Services
11301 South Virginia St.
Reno, NV 89511

Office: 775-853-1319 Ext. 223
Cell: 775-771-6339
Fax: 775-853-0467
carriel@moananursery.com

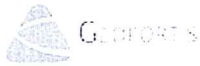


www.moananursery.com

From: David McMurtry <dmcumrtry@geofortis.com>
Sent: Tuesday, September 29, 2020 2:52 PM

9/30/2020
\$186

PINSS



dmcmurtry@geofortis.com
www.geofortis.com

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From: Michelle Cartnick <michellec@moananursery.com>
Sent: Monday, August 19, 2019 12:00 PM
To: David McMurtry <dmcmurtry@geofortis.com>
Cc: Richard Rivas <richardr@moananursery.com>; Brad Hunter <bradh@moananursery.com>
Subject: Re: test

Hi David,

Michelle Gilmore is no longer working with us and I have taken her place as plant doctor at the Pyramid Way location. As of now we do not have any 4'/5' or 5'/6' Jeffrey Pines available. However, we do have the following available:

Jeffrey Pine

#15 - \$169

#20 - \$276

7'/8' BB - \$300

8'/10' - \$442

10'/12' - \$566

Russian Sage

#5 - \$32

Aug 19

SAGE

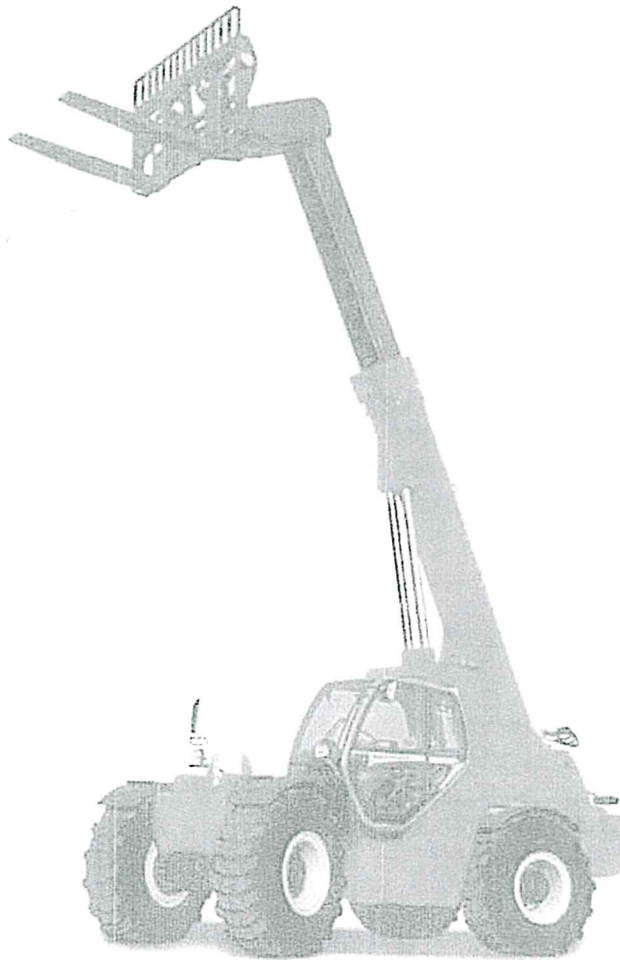
Thank you,

Michelle Cartnick
Plant Doctor | Moana Nursery

State of California
California State Transportation Agency

Department of Transportation
Division of Construction

Labor Surcharge and Equipment Rental Rates



Effective April 1, 2021 through March 31, 2022



GOMACO		[GOMA]
Model	Code	Rate
G'T-6000-(78&90)	3040	\$78.94
COMMANDER II	3045	\$90.42
COMMANDER III	3050	\$124.69

MILLER FORMLESS		[MILL]
Model	Code	Rate
M-7500	3063	\$92.48
M-8100	3065	\$130.38
M-8800	3067	\$165.12

ELECTRIC GENERATORS & LIGHT PLANTS [ELGEN]

DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.88
Rates are for gas or diesel power and alternating or direct current.

GENERATOR		[GEN]	
Rated in accordance with Mfr's output in kilowatts.			
OVER	TO	Code	Rate
0	1	000-001	\$0.76
1	3	001-003	\$1.75
3	7.5	003-008	\$3.63
7.5	15	008-015	\$8.15
15	25	015-025	\$12.76
25	50	025-050	\$13.00
50	100	050-100	\$23.10
100	200	100-200	\$46.18
200	300	200-300	\$77.93
300	400	300-400	\$106.60
400	500	400-500	\$133.79

LIGHTS		[LITE]
Includes trailer, pole and generator.		
Model	Code	Rate
2 Light Set	2 LIGHT	\$3.87
4 Light Set	4 LIGHT	\$8.04

ELECTRIC POWERED HAND TOOLS [ELTOL]

DELAY FACTOR = 0.62 OVERTIME FACTOR = 0.42
Includes electric powered, hand held tools not listed elsewhere in this book. Expendable bits, blades, discs, wheels, etc. shall be paid by separate invoice. Rated in accordance with Mfr's suggested retail price.

TOOLS		[TOOL]	
OVER	TO	Code	Rate
450	600	045-060	\$0.32
600	800	060-080	\$0.42
800	1000	080-100	\$0.53

FORK LIFT TRUCKS [FKLFT]

DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.79

Includes attachments and accessories. Listed in accordance with the Mfr's maximum rated capacity in kilograms(pounds).

FORK LIFT TRUCKS		[FLT]	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
454 (1000)	1814 (4000)	010-040	\$27.99
1814 (4000)	2722 (6000)	040-060	\$37.25
2722 (6000)	3629 (8000)	060-080	\$42.05
3629 (8000)	5443 (12000)	080-120	\$57.96
5443 (12000)	7258 (16000)	120-160	\$61.34
7258 (16000)	9072 (20000)	160-200	\$71.98
9072 (20000)	11340 (25000)	200-250	\$71.59
11340 (25000)	13608 (30000)	250-300	\$78.78
13608 (30000)	18144 (40000)	300-400	\$101.01
18144 (40000)	22680 (50000)	400-500	\$122.11
22680 (50000)	34020 (75000)	500-750	\$167.15

GRADERS [GRADR]

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90

Includes ripper and scarifier attachments and all accessories. Electronic blade control and specialty cutting tools shall be paid separately.

BLADE-MOR		[BMOR]
Model	Code	Rate
727	2173	\$24.19
747	2178	\$34.82

CATERPILLAR		[CAT]
Model	Code	Rate
120G 87V serial	2685	\$65.79
130G 74V serial	2695	\$72.92
12E 99E serial	2710	\$46.00
12F 73G serial	2768	\$69.70
12F 13K serial	2826	\$54.01
12F 89H serial	2884	\$54.48
12G 61M serial	2890	\$74.62
12H	2895	\$85.85
14E 72G serial	3174	\$71.90
14G	3180	\$111.21
14H	3185	\$122.82
140 14U serial	3250	\$72.89
140G 72V serial	3260	\$80.67
140H	3265	\$86.45
143H	3267	\$96.68
16 49G serial	3290	\$93.89
16 49G800 serial	3348	\$137.42
16 G93U serial	3360	\$154.77
16H	3380	\$164.31

430E	1865E	\$58.53	IT 12	2472	\$38.33
436 w/ backhoe	1866	\$43.39	IT 12B	2472B	\$44.64
436 Series II w/ backhoe	1866A	\$43.56	IT 14F	2473	\$51.75
446 w/ backhoe	1868	\$56.21	IT 18	2474	\$48.95
446B w/ backhoe	1868B	\$62.15	IT 18B	2475	\$55.35
446D	1868D	\$64.58	IT 28	2476	\$59.20
450E	1869E	\$77.84	IT 28B	2477	\$64.26
910	1870	\$37.59	IT 28F	2477G	\$74.46
910E	1870E	\$44.25	IT 28G	2478	\$77.56
916	1885	\$50.13	IT 38G	2480	\$89.33
920	1894	\$45.86	IT 62G	2482	\$122.88
926	2065	\$58.75	CLARK	[CLRK]	
926E	2067	\$63.57			
928G	2070G	\$76.21	<u>Model</u>	<u>Code</u>	<u>Rate</u>
930 41K serial	2088	\$56.16	35C	2484	\$46.78
930G	2088G	\$90.38	45C	2486	\$54.68
936	2100	\$71.29	55C	2488	\$66.02
936E	2110	\$77.72	75C	2491	\$86.24
936F	2120	\$80.75	125B	2492	\$110.96
938F	2130	\$82.48	275B	2496	\$192.69
938G	2130G	\$93.25	275C	2497	\$210.63
950 90A serial	2228	\$60.16	JOHN DEERE	[DEER]	
950 31K & 81J serial	2270	\$72.47			
950B	2272	\$89.18	<u>Model</u>	<u>Code</u>	<u>Rate</u>
950E	2300	\$94.90	JD-210C	2485	\$29.64
950F	2301	\$99.91	JD-210C w/ backhoe	2490	\$29.70
950F Series II	2303	\$103.46	JD-210LE	2495	\$38.96
950G	2310	\$111.21	JD-310A w/ backhoe	2504	\$31.14
950H	2310H	\$129.07	JD-310B w/ backhoe	2506	\$31.81
950M	2310M	\$151.93	JD-310C w/ backhoe	2507	\$35.02
962G	2320G	\$121.65	JD-310D w/ backhoe	2507D	\$39.46
966C	2340	\$106.04	JD-310E w/ backhoe	2507E	\$40.40
966D	2350	\$117.03	JD-310SE w/ backhoe	2507F	\$45.23
966E	2360	\$129.25	310G	2507G	\$41.45
966F	2361	\$132.07	JD-315SE w/ backhoe	2507H	\$45.84
966G	2362	\$148.48	JD-410 w/ backhoe	2508	\$34.05
966H	2362H	\$172.95	JD-410B w/ backhoe	2508B	\$34.73
966K	2362K	\$177.05	JD-410C w/ backhoe	2508C	\$40.76
970F	2370	\$155.21	JD-410D w/ backhoe	2508D	\$48.54
972G	2372G	\$165.56	JD-410E w/ backhoe	2508E	\$50.96
972M	2372M	\$195.52	410G	2508G	\$52.08
980B	2376	\$134.64	410J 4WD	2508J	\$60.16
980C	2378	\$164.69	410K	2508K	\$64.33
980F	2381	\$169.75	JD-444	2510	\$45.27
980G	2382	\$187.13	JD-444C	2515	\$47.20
980H	2382H	\$204.67	JD-444D	2520	\$48.61
988 87A6868 serial	2398	\$164.58	JD-444E	2521	\$52.79
988B 50W serial	2436	\$236.23	JD-500C w/ backhoe	2592	\$44.21
992B 25K serial	2460	\$293.65	JD-510 w/ backhoe	2620	\$40.92
992C	2470	\$451.50	JD-510B w/ backhoe	2625	\$39.52
			JD-510C w/ backhoe	2630	\$46.57

TRAILERS, EQUIPMENT, LOW BED [TRAIL]

DELAY FACTOR = 0.43 OVERTIME FACTOR = 0.65

Includes all attachments and accessories related to hauling. The rates cover drop deck type with and without folding removable gooseneck or oscillating trunion. Pilot vehicles are extra. Listed in accordance with number of axles and tires per axle. Includes jeeps, booster axles, and dollies. All loads shall be hauled legally or within Caltrans Permit Policy.

LOW BED A [LB-A]

2 axle

Model	Code	Rate
4 Tires per axle	100	\$15.29
8 Tires per axle	200	\$19.28

LOW BED B [LB-B]

3 axle

Model	Code	Rate
4 Tires per axle	300	\$20.53
8 Tires per axle	400	\$23.80

LOW BED C [LB-C]

4 axle

Model	Code	Rate
4 Tires per axle	500	\$32.93
8 Tires per axle	600	\$40.86

LOW BED D [LB-D]

6 axle

Model	Code	Rate
8 Tires per axle	700	\$65.46

TRAILERS, EQUIPMENT, TILT BED [TRAIT]

DELAY FACTOR = 0.43 OVERTIME FACTOR = 0.65

Includes all attachments and accessories related to hauling. Pilot vehicles are extra. Listed in accordance with the Mfr's rated capacity in tonnes(tons).

TILT BED 1 AXLE [TB-1]

OVER	TO	Code	Rate
0	1.8 (2)	00-02	\$0.81
1.8 (2)	3.6 (4)	02-04	\$0.87

TILT BED 2 AXLES [TB-2]

OVER	TO	Code	Rate
3.6 (4)	5.4 (6)	04-06	\$1.44
7.3 (8)	9.1 (10)	08-10	\$4.48
9.1 (10)	10.9 (12)	10-12	\$5.16
10.9 (12)	12.7 (14)	12-14	\$5.81
12.7 (14)	14.5 (16)	14-16	\$6.45
14.5 (16)	16.3 (18)	16-18	\$6.24
16.3 (18)	18.1 (20)	18-20	\$6.02
18.1 (20)	20.0 (22)	20-22	\$6.90
20.0 (22)	22.7 (25)	22-25	\$6.71

TRENCHING MACHINES [TRENC]

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90

Includes all attachments and accessories. When used, tungsten carbide tips shall be replaced by separate invoice.

BOBCAT [BCAT]

Model	Code	Rate
T 116	2000	\$12.07
T 135	2010	\$27.89
T 136	2020	\$28.21
T 208	2030	\$6.26
3022	2040	\$28.66

CASE [CASE]

Model	Code	Rate
TL 70	9051	\$5.08
TL 100	9053	\$7.32
TL 120	9055	\$8.83
TL 200	9070	\$9.00
16+4	9120	\$13.09
25+4	9170	\$18.13
25 + 4 XP	9171	\$22.98
30+4 standard	9224	\$25.66
DH 4	9255	\$34.43
DH 4B	9256	\$37.79
DH 5	9257	\$33.27
DH 5 QUAD	9259	\$34.24
DH 7	9261	\$39.34
360	9263	\$27.73
ROAD RUNNER 380	9277	\$37.44
TF 300	9374	\$17.37
TF 700	9398	\$23.21
TF 800	9405	\$30.17
TF 1000	9460	\$35.34
760	9465	\$36.64

DITCH WITCH [D-W]

Model	Code	Rate
R 30	5390	\$23.43
R 36D	5400	\$28.93
R 40	5432	\$30.45
R 65	5556	\$31.23
R 100	5565	\$76.60
V 30	5618	\$22.28
1410	5620	\$9.15
1420	5625	\$9.81
1500	5630	\$6.79
1620	5635	\$12.79
1810	5640	\$13.15
2020	5645	\$16.56

2200	5650	\$15.62
2300	5660	\$23.55
2310	5662	\$24.75
3210	5670	\$26.90
3210 Combo	5675	\$27.76
3500	5676	\$31.72
4010	5677	\$40.51
4010 Combo	5678	\$31.60
5010	5679	\$31.56
6510	5680	\$37.73
6510 Combo	5685	\$40.77

MIDMARK

[MDMK]

Model	Code	Rate
300 A	7945	\$23.24
321	7950	\$24.49
400 A	7955	\$29.74
440	7960	\$37.51

VERMEER

[VERM]

Model	Code	Rate
CC-135	8350	\$83.11
M 220	8380	\$15.49
M 455 / M455A	8480	\$36.82
M 475	8570	\$39.02
M 475A	8571	\$44.09
M 485	8580	\$42.86
M 495	8585	\$69.11
T 300B, T 300A	8718	\$24.08
T 400C, T 400B, T 400A	8781	\$52.85
T 600D, C, B, A	8842	\$76.29
T 650	8843	\$128.83
T 800B, T 800A, T800	8870	\$122.38
T 800C	8871	\$133.47
T 850	8875	\$237.82
V 430	8950	\$27.52
V 430A	8951	\$30.95
V 434 / M 434	9000	\$26.53
V 440	9015	\$29.54
V 450	9017	\$35.03
V 454	9020	\$30.30
V 1550	9025	\$14.49

TRUCK, TRUCK TRAILERS, EXCL. DUMP TRUCKS & EQPT TRAIL

[TRUCK]

DELAY FACTOR = 0.12

OVERTIME FACTOR = 0.88

Includes all attachments and accessories related to hauling, with and without trailers as needed. Includes water trucks, freight trucks and passenger vehicles, including 4wd option. Listed by Mfr's Gross Vehicle Weight in Kilograms(pounds). For tractor-trailer units, the gross vehicle weight of the cargo carrying unit or units will control. In the case of water trucks, the tank capacity expressed in kilograms (pounds) of water plus 20% will determine the gross vehicle weight. For attachment allowance, see attachment class.

TRUCKS

[T&TT]

OVER	TO	Code	Rate
CARS, LIGHT TRUCKS			
3175 (7000) 5443 (12000) No small pickups			
		00-06	\$25.14
		06-12	\$28.46
5443 (12000) 9072 (20000)			
		12-20	\$36.92
9072 (20000) 12701(28000)			
		20-28	\$39.12
12701 (28000) 16330 (36000)			
		28-36	\$44.60
16330 (36000) 21773 (48000)			
		36-48	\$59.78
21773 (48000) 27216 (60000)			
		48-60	\$65.72
27216(60000) & Over			
		60	\$73.97

TRUCKS, OFF-HIGHWAY

[TRUOF]

DELAY FACTOR = 0.22

OVERTIME FACTOR = 0.80

Includes all attachments and accessories. Includes end dump, belly dump and earthmover types. Listed in accordance with Mfr's rated capacity in tonnes (tons). In the case of earthmover types, rated by Mfr's volumetric capacity, a factor of 1.4 tonnes per cubic meter (1-1/2 tons per cubic yard) of struck capacity shall be used.

TRUCK OFF-HIGHWAY

[TRU]

OVER	TO	Code	Rate
9.1 (10) 13.6 (15)			
		10-15	\$45.39
16.3 (18) 20.0 (22)			
		18-22	\$81.39
20.0 (22) 24.5 (27)			
		22-27	\$101.51
24.5 (27) 29.0 (32)			
		27-32	\$116.15
29.0 (32) 36.3 (40)			
		32-40	\$157.46
36.3 (40) 49.9 (55)			
		40-55	\$232.71
49.9 (55) 60.8 (67)			
		55-67	\$261.52

GRADER
OPERATOR

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

FOR LANDSCAPE CONSTRUCTION PROJECTS

CRAFT: OPERATING ENGINEER[#]

Determination:

NC-63-3-75-2021-1

Issue Date:

August 22, 2021

Expiration date of determination:

June 26, 2022** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director - Research Unit for specific rates at (415) 703-4774.

Localities:

All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties

AREA 1 - Alameda, Butte, Contra Costa, Kings, Marin, Merced, Napa, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Yolo and Yuba counties; and portions of Alpine, Amador, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Lake, Lassen, Madera, Mariposa, Mendocino, Monterey, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sonoma, Tehama, Trinity, Tulare, and Tuolumne Counties (Portions of counties falling in each area detailed in the Operating Engineer (Heavy and Highway Work) determination).

Wages and Employer Payments (Area 1):

Classification ^a (Journey person)	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday ^b	Training	Other	Hours	Total Hourly Rate	Daily Overtime Hourly Rate (1½ X)	Saturday Overtime Hourly Rate (1½ X) ^c	Sunday/ Holiday Overtime Hourly Rate (2 X)
Group I	\$42.81	\$13.38	\$10.35	\$4.39	\$1.11	\$1.21	8	\$73.25	\$94.655	\$94.655	\$116.060
Group II	\$39.21	\$13.38	\$10.35	\$4.39	\$1.11	\$1.21	8	\$69.65	\$89.255	\$89.255	\$108.860
Group III	\$34.60	\$13.38	\$10.35	\$4.39	\$1.11	\$1.21	8	\$65.04	\$82.340	\$82.340	\$99.640
Group IV	\$31.89	\$13.38	\$10.35	\$4.39	\$1.11	\$1.21	8	\$62.33	\$78.275	\$78.275	\$94.220

CLASSIFICATIONS:

Group I

Landscape Finish Grade Operator. All finish grade work regardless of the equipment used, and all equipment with a horsepower rating of more than 65.

Group II

Landscape Operator up to 65 H.P. All equipment with a manufacturer's horsepower rating of 65 or less except equipment covered by Group I or Group III. The following equipment shall be included in Group II except when used for finish work so long as its manufacturer's horsepower rating is 65 or less.

A-Frame and Winch Truck

Backhoe

Forklift (Jobsite)

HDR Welder - Landscape - Operating Engineer's Equipment

Hydro Seeder Machine

Roller

Rubber-Tired and Track Earthmoving Equipment

Skiploader

Straw Blowers

Trencher - 35 Horsepower up to 65 Horsepower

Group III

Landscape Utility Operator

Small Rubber-Tired Tractor

Trencher - Under 35 Horsepower

Group IV

Assistant Landscape Utility Operator Oiler

^a Indicates an apprenticeable craft. The current apprentice wage rates are available on the Prevailing Wage Apprentice Determinations Website (<http://www.dir.ca.gov/OPRL/PWAppWage/PWAppWageStart.asp>).

^a For classifications within each group, see Page 5.

^b Includes an amount for Supplemental Dues.

^c Saturday in the same workweek may be worked at straight-time if a job is shut down during the normal workweek due to inclement weather, major mechanical breakdown or shortage of materials beyond the control of the Individual Employer.

Road Truck

Determination: NC-023-261-1 and NC-023-261-1A
Page 3 of 6

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

Craft: TEAMSTER (SPECIAL SINGLE SHIFT RATE)
(APPLIES ONLY TO WORK ON THE CONSTRUCTION SITE)

Determination:
NC-23-261-1-2021-1A

Issue Date:
August 22, 2021

Expiration date of determination:

June 30, 2022** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director - Research Unit for specific rates at (415) 703-4774.

Localities:

All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

WAGE RATES AND TOTAL HOURLY RATES (including employer payments):

Classification ^a (Journey person)	Basic Hourly Rate	Hours	Total Hourly Rate	Daily Overtime Hourly Rate (1 ½ X)	Saturday Overtime Hourly Rate (1 ½ X) ^b	Sunday/ Holiday Overtime Hourly Rate (2 X)
Group 1	\$37.15	8	\$68.57	\$87.15	\$87.15	\$105.72
Group 2	\$37.45	8	\$68.87	\$87.60	\$87.60	\$106.32
Group 3	\$37.75	8	\$69.17	\$88.05	\$88.05	\$106.92
Group 4	\$38.10	8	\$69.52	\$88.57	\$88.57	\$107.62
Group 5	\$38.45	8	\$69.87	\$89.10	\$89.10	\$108.32
Group 6	USE DUMP TRUCK YARDAGE RATE					
Group 7	USE APPROPRIATE RATE FOR THE POWER UNIT OR THE EQUIPMENT UTILIZED					



GROUP 5

Dump Truck 65 yards and over
Holland Hauler
Lowbed Heavy Duty Transport (over 7 axles)

GROUP 6 (Use dump truck yardage rate)

Articulated Dump Truck
Bulk Cement Spreader (w/ or w/o Auger)
Dumpcrete Truck
Skid Truck (Debris Box)
Dry Pre-Batch Concrete Mix Trucks
Dumpster or Similar Type
Slurry Truck

GROUP 7 (Use appropriate Rate for the Power Unit or the Equipment Utilized)

Heater Planer
Asphalt Burner
Scarifier Burner
Fire Guard
Industrial Lift Truck (mechanical tailgate)
Utility and Clean-up Truck
Composite Crewman

GROUP 8

Trainee

Recognized holidays:

Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Director's General Prevailing Wage Determinations Website (<http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>). Holiday provisions for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

Travel and/or subsistence payment:

In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Director's General Prevailing Wage Determinations Website (<http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>). Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

^a For classifications within each group, see Pages 5 and 6.

^b Saturday in the same work week may be worked at straight-time hourly rate if a job is shut down during the normal work week due to inclement weather or major mechanical breakdown, or lack of materials beyond the control of the Employer.

^c An individual employer may employ one (1) trainee for every four (4) journey level Teamsters actively employed. Individual employers with less than four (4) journey level Teamsters may utilize one (1) trainee; thereafter, one (1) for every four (4) journey level Teamsters.

^d Sixty-five percent (65%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.

^e Seventy-five percent (75%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.

^f Eighty-five percent (85%) of the Journey level wage for the type of equipment operated, plus full fringes without Vacation/Holiday.

^g Supplemental Dues and Contract Administration.

LOW BOY
DELIVERY / REMOVAL

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

Craft: TEAMSTER (APPLIES ONLY TO WORK ON THE CONSTRUCTION SITE)

Determination:
NC-23-261-1-2021-1

Issue Date:
August 22, 2021

Expiration date of determination:

June 30, 2022** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director - Research Unit for specific rates at (415) 703-4774.

Localities:

All Localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

WAGE RATES AND TOTAL HOURLY RATES (including employer payments):

Classification ^a (Journey person)	Basic Hourly Rate	Hours	Total Hourly Rate	Daily Overtime Hourly Rate (1 ½ X)	Saturday Overtime Hourly Rate (1 ½ X) ^b	Sunday/ Holiday Overtime Hourly Rate (2 X)
Group 1	\$35.15	8	\$66.57	\$84.15	\$84.15	\$101.72
Group 2	\$35.45	8	\$66.87	\$84.60	\$84.60	\$102.32
Group 3	\$35.75	8	\$67.17	\$85.05	\$85.05	\$102.92
Group 4	\$36.10	8	\$67.52	\$85.57	\$85.57	\$103.62
Group 5	\$36.45	8	\$67.87	\$86.10	\$86.10	\$104.32
Group 6	USE DUMP TRUCK YARDAGE RATE					
Group 7	USE APPROPRIATE RATE FOR THE POWER UNIT OR THE EQUIPMENT UTILIZED					
Group 8 (Trainee) ^c						
^d Step I – 1 st 1000 Hours						
^e Step II – 2 nd 1000 Hours						
^f Step III – 3 rd 1000 Hours						

GENERAL EVALUATING WAGE DETERMINATION BY THE
DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE
PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

Craft: LABORER AND RELATED CLASSIFICATIONS#

Determination:

NC-23-102-1-2021-1

LANDSCAPES
LABOR

Issue Date:

August 22, 2021

Expiration date of determination:

June 26, 2022** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director - Research Unit for specific rates at (415) 703-4774.

Localities:

All localities within Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Marin, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

AREA 1 - Alameda, Contra Costa, Marin, San Francisco, San Mateo, And Santa Clara Counties.

AREA 2 - Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo And Yuba Counties.

WAGE RATES AND TOTAL HOURLY RATES (AREA 1):

Classification ^a (Journey person)	Basic Hourly Rate ^b	Hours ^c	Total Hourly Rate	Daily/ Saturday Overtime Hourly Rate ^d	Sunday/ Holiday Overtime Hourly Rate
Construction Specialist	\$34.75	8	\$61.24	\$78.62	\$95.99
Group 1; Group 1(B) ^e	\$34.05	8	\$60.54	\$77.57	\$94.59
Group 1 (A)	\$34.27	8	\$60.76	\$77.90	\$95.03
Group 1 (C)	\$34.10	8	\$60.59	\$77.64	\$94.69
Group 1 (E)	\$34.60	8	\$61.09	\$78.39	\$95.69
Group 1 (G)	\$34.25	8	\$60.74	\$77.87	\$94.99
Group 2	\$33.90	8	\$60.39	\$77.34	\$94.29
Group 3; Group 3 (A)	\$33.80	8	\$60.29	\$77.19	\$94.09
Group 4; Group 6 (B)	\$27.49	8	\$53.98	\$67.73	\$81.47
Group 6	\$35.01	8	\$61.50	\$79.01	\$96.51
Group 6 (A)	\$34.51	8	\$61.00	\$78.26	\$95.51
Group 6 (C)	\$33.92	8	\$60.41	\$77.37	\$94.33
Group 6 (D)	\$34.63	8	\$61.12	\$78.44	\$95.75
Group 6 (E)	\$33.65	8	\$60.14	\$76.97	\$93.79
Group 7 – Stage 1 (1 st 6 months)	\$23.66	8	\$50.15	\$61.98	\$73.81
Group 7 – Stage 2 (2 nd 6 months)	\$27.04	8	\$53.53	\$67.05	\$80.57
Group 7 – Stage 3 (3 rd 6 months)	\$30.42	8	\$56.91	\$72.12	\$87.33

WAGE RATES AND TOTAL HOURLY RATES (AREA 2):

Classification ^a (Journey person)	Basic Hourly Rate ^b	Hours ^c	Total Hourly Rate	Daily/ Saturday Overtime Hourly Rate ^d	Sunday/ Holiday Overtime Hourly Rate
Construction Specialist	\$33.75	8	\$60.24	\$77.12	\$93.99
Group 1; Group 1(B) ^e	\$33.05	8	\$59.54	\$76.07	\$92.59
Group 1 (A)	\$33.27	8	\$59.76	\$76.40	\$93.03
Group 1 (C)	\$33.10	8	\$59.59	\$76.14	\$92.69
Group 1 (E)	\$33.60	8	\$60.09	\$76.89	\$93.69
Group 2	\$32.90	8	\$59.39	\$75.84	\$92.29
Group 3; Group 3 (A)	\$32.80	8	\$59.29	\$75.69	\$92.09
Group 4; Group 6 (B)	\$26.49	8	\$52.98	\$66.23	\$79.47
Group 6	\$34.01	8	\$60.50	\$77.51	\$94.51
Group 6 (A)	\$33.51	8	\$60.00	\$76.76	\$93.51
Group 6 (C)	\$32.92	8	\$59.41	\$75.87	\$92.33
Group 6 (D)	\$33.63	8	\$60.12	\$76.94	\$93.75
Group 6 (E)	\$32.65	8	\$59.14	\$75.47	\$91.79
Group 7 – Stage 1 (1 st 6 months)	\$22.96	8	\$49.45	\$60.93	\$72.41
Group 7 – Stage 2 (2 nd 6 months)	\$26.24	8	\$52.73	\$65.85	\$78.97
Group 7 – Stage 3 (3 rd 6 months)	\$29.52	8	\$56.01	\$70.77	\$85.53

EMPLOYER PAYMENTS:

Type of Fund	Amount per Hour Worked
Health & Welfare	\$9.30
Pension	\$13.36
Vacation and Holiday	\$3.05
Training	\$0.50
Other	\$0.28

GROUP 3

CONSTRUCTION LABORERS INCLUDING
BRIDGE LABORERS, GENERAL LABORERS
AND CLEANUP LABORERS
DEMOLITION WORKER
DUMPMAN, LOAD SPOTTER
FLAGPERSON/PEDESTRIAN MONITOR
FIRE WATCHER
FENCE ERECTORS, INCLUDING TEMPORARY
FENCING
GUARDRAIL ERECTORS
GARDENER, HORTICULTURAL AND
LANDSCAPE LABORERS (SEE GROUP 4, FOR
LANDSCAPE MAINTENANCE ON NEW
CONSTRUCTION DURING PLANT
ESTABLISHMENT PERIOD)
JETTING
LIMBERS, BRUSH LOADERS, AND PILERS
PAVEMENT MARKERS (BUTTON SETTERS)
PAVERS/INTERLOCKING PAVERS (ALL TYPES)
AND INTERLOCKING PAVER MACHINES
MAINTENANCE, REPAIR TRACKMEN AND
ROAD BEDS
STREETCAR AND RAILROAD CONSTRUCTION
TRACK LABORERS
TEMPORARY AIR AND WATER LINES,
VICTAULIC OR SIMILAR
TOOL ROOM ATTENDANT (JOBSITE ONLY)
TREE REMOVAL
WHEELBARROW, INCLUDING POWER DRIVEN

GROUP 3 (A) -- SEE GROUP 3 RATES
COMPOSITE CREW PERSON (OPERATION OF
VEHICLES, WHEN IN CONJUNCTION WITH
LABORER'S DUTIES)

GROUP 4

ALL FINAL CLEANUP OF DEBRIS, GROUNDS
AND BUILDINGS NEAR THE COMPLETION OF
THE PROJECT INCLUDING BUT NOT LIMITED
TO STREET CLEANERS (NOT APPLICABLE
TO ENGINEERING OR HEAVY HIGHWAY
PROJECTS)
CLEANING AND WASHING WINDOWS (NEW
CONSTRUCTION ONLY), SERVICE
LANDSCAPE LABORERS (SUCH AS
GARDENER, HORTICULTURE, MOWING,
TRIMMING, REPLANTING, WATERING
DURING PLANT ESTABLISHMENT PERIOD)
ON NEW CONSTRUCTION
BRICK CLEANERS (JOB SITE ONLY)
MATERIAL CLEANERS (JOB SITE ONLY)

NOTE: AN ADDITIONAL DETERMINATION FOR
LANDSCAPE MAINTENANCE WORK AFTER
THE PLANT ESTABLISHMENT PERIOD OR
WARRANTY PERIOD IS PUBLISHED IN THE
NORTHERN CALIFORNIA LANDSCAPE
MAINTENANCE LABORER DETERMINATION.

GROUP 6

STRUCTURAL NOZZLEMAN

GROUP 6 (A)

NOZZLEMAN (INCLUDING GUNMAN, POTMAN)
RODMAN
GROUNDMAN

GROUP 6 (B) -- SEE GROUP 4 RATES GUNITE
TRAINEE (ONE GUNITE LABORER SHALL BE
ALLOWED FOR EACH THREE (3)
JOURNEYMAN (GROUP 6, 6A, 6C, OR
GENERAL LABORER) ON A CREW. IN THE
ABSENCE OF THE JOURNEYMAN, THE
GUNITE TRAINEE RECEIVES THE
JOURNEYMAN SCALE.).

NOTE: THIS RATIO APPLIES ONLY TO WORK
ON THE SAME JOB SITE.

GROUP 6 (C)

REBOUNDMAN

GROUP 6 (D)

ALIGNER OF WIRE WINDING MACHINE IN
CONNECTION WITH GUNITING OR SHOT
CRETE

GROUP 6 (E)

ALIGNER HELPER OF WIRE WINDING
MACHINE IN CONNECTION WITH GUNITING
OR SHOT CRETE

GROUP 7

ENTRY LEVEL LANDSCAPE LABORER (RATIO
FOR ENTRY LEVEL IS ONE IN THREE. AT
LEAST ONE SECOND PERIOD ENTRY LEVEL
AND AT LEAST ONE THIRD PERIOD ENTRY
LEVEL MUST BE EMPLOYED BEFORE
EMPLOYING ANOTHER FIRST PERIOD
TRAINEE).

NOTE: THIS RATIO APPLIES ONLY TO WORK
ON THE SAME JOB SITE

DEC 28 2021

State of California
DEPARTMENT OF CONSERVATION
DIVISION OF MINE RECLAMATION
Form CD-1 (4/18) Page 1 of 3

LASSEN COUNTY DEPARTMENT OF
PLANNING AND BUILDING SERVICES

CERTIFICATE OF DEPOSIT/CASH ACCOUNT

California Mine ID No.: 91-18-0037
Account or Deposit No.: [REDACTED]
Issued Date: 12/14/2021
Permit No.: 95004
Reclamation Plan Name/No.: Long Valley Pozzolan Mine/95004

This certificate of deposit or cash account (CD) (account or deposit number) is issued on behalf of
Interest Income Partners and may only be released or encashed through the following
(Name of APPLICANT)
procedures:

Wells Fargo Bank, a federally insured depository institution authorized to do
(FINANCIAL INSTITUTION)
business in the State of California using federally insured accounts, issues this CD (account or deposit number),
in the amount of \$ 59,756.00, which shall automatically renew each year, unless
released or encashed according to the terms and conditions set forth below.

This CD is for the benefit of payees County of Lassen and the Department of
(Name of LEAD AGENCY)
Conservation, Division of Mine Reclamation. Interest Income Partners hereby consents to the
(Name of APPLICANT)
provision by Wells Fargo Bank to the County of Lassen and the
(FINANCIAL INSTITUTION) (Name of LEAD AGENCY)
Department of Conservation, Division of Mine Reclamation of such information concerning the CD as the
County of Lassen and the Department of Conservation, Division of Mine Reclamation
(Name of LEAD AGENCY)
may request in writing information regarding the status of the CD, including but not limited to the amount, the
account number, the maturity date, and the rate of interest.

Wells Fargo Bank shall be authorized to encash the CD at any time at the request
(FINANCIAL INSTITUTION)
of either the County of Lassen or the Department of Conservation, Division of Mine
(Name of LEAD AGENCY)
Reclamation, and to deliver such funds to the County of Lassen or the Department of
(Name of LEAD AGENCY)
Conservation, Division of Mine Reclamation but only upon written consent for the encashment and certification
from both the County of Lassen and the Department of Conservation, Division of Mine
(Name of LEAD AGENCY)
Reclamation that Interest Income Partners has been determined to be financially incapable
(Name of APPLICANT)
of reclamation or has abandoned the mining operation following a noticed public hearing, all in
accordance with the provisions of Public Resources Code Section 2773.1(b).

Wells Fargo Bank shall be authorized to encash the CD at the instance and
(FINANCIAL INSTITUTION)
request of Interest Income Partners, and to deliver such funds to Interest Income Partners,
(Name of APPLICANT) (Name of APPLICANT)
only upon receipt of a written release from both the County of Lassen and the
(Name of LEAD AGENCY)
Department of Conservation, Division of Mine Reclamation relinquishing their claim and interest to this CD.

Interest earned under this CD is not subject to the terms and conditions above. Any interest paid to the applicant in accordance with the financial institution's practices may not reduce the initial principal amount of this CD. Where an applicant elects to have earned interest subject to the terms and conditions above, they shall do so by indicating here DF at the time this CD is issued.
(APPLICANT INITIALS)

The individuals signing below certify they agree to the terms mentioned above and that the signatories are authorized to sign this agreement on behalf of their respective entity.

Date: 12/02/2021

Interest Income Partners

(Name of APPLICANT)

David Fish

Digitally signed by David Fish
Date: 2021.12.02 15:33:59 -08'00'

(Signature)

David Fish

(Typed or Printed Name)

CFO

(Title)

10 Yellow Ferry Dock Apt D, Sausalito, CA 94965

(Mailing Address)

415-332-1440

(Phone)

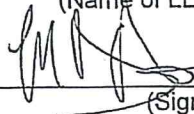
dfish@iipart.com

(Email)

County of Lassen

Date: 12-6-21

(Name of LEAD AGENCY)



(Signature)

Maurice L. Anderson

(Typed or Printed Name)

Director

(Title)

707 Nevada St. Susanville, CA 96130

(Mailing Address)

530-251-8826

(Phone)

MANDERSON@CO.LASSEN.CA.US

(Email)

Wells Fargo Bank

[SEAL]

(Name of FINANCIAL INSTITUTION)

Date: 12/14/21

(Signature)

Yi Tang

(Typed or Printed Name)

Personal Banker

(Title)

632 Laurel Street, San Carlos, CA 94070

(Mailing Address)

650-594-4244

(Phone)

yi.tang2@wellsfargo.com

(Email)

Yi Tang	CM626	04272
NMLS ID	1767280	
650-594-4244		
Wells Fargo Bank, N.A.		A0418-011
San Carlos Branch		COID 114
		AU 000450



California
Department of Conservation
Division of Mine Reclamation

Gavin Newsom, Governor
David Shabazian, Director

February 3, 2022

Ms. Cortney Flather
County of Lassen
Department of Planning & Building Services
707 Nevada Street, Ste 5
Susanville, CA 96130-3912

RECEIVED

FEB 03 2022

Sent electronically to: cflather@co.lassen.ca.us

LASSEN COUNTY DEPARTMENT OF
PLANNING AND BUILDING SERVICES

RECLAMATION PLAN AMENDMENT
LONG VALLEY POZZOLON MINE
CA MINE ID: #91-18-0037

Dear Ms. Flather:

The Department of Conservation's Division of Mine Reclamation (Division) received a reclamation plan amendment (RPA) from the County of Lassen (County) for the Long Valley Pozzolon Mine (Mine) on January 11, 2022. The County is the lead agency under the Surface Mining and Reclamation Act of 1975 (SMARA; Public Resources Code [PRC] Section 2710 et seq.). Geofortis Minerals (Operator) is proposing to amend the reclamation plan to include mitigation measures for White woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*) which is classified as California Rare Plant Rank 2B.2 (i.e., fairly threatened) in California.

SMARA and associated regulations (California Code of Regulations Title 14, Division 2, Chapter 8, Subchapter 1, Articles 1 and 9) require that specific items be addressed or included in reclamation plans and their amendments. Pursuant to PRC Section 2772.1 (b)(2), Division staff has reviewed the proposed RPA and associated documents in the administrative files and provides no specific comments at this time.

The Division looks forward to receiving the 30-day notice that the County intends to approve the RPA, followed by receipt of the approved RPA. Additionally, upon approval of the RPA the County shall record a "Notice of Reclamation Plan Approval" with the County recorder, pursuant to PRC Section 2772.7.

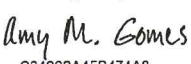
Ms. Flather

Long Valley Pozzolon Mine (CA Mine ID# 91-18-0037) RPA


February 3, 2022

If you have any questions about this RPA submittal or require any assistance with other mine reclamation issues, please contact Amy Gomes at (916) 616-1558. The Division receives electronic correspondences at DMR-Submittals@conservation.ca.gov.

Sincerely,

DocuSigned by:

C64262A45B474A8...

Amy M. Gomes
Environmental Scientist
Environmental Services Unit

DocuSigned by:

10B2FB1E4F934E0...

Jacquelynn Moore
Engineering Geologist
Engineering and Geology Unit

cc: David McMurtry, Operator; dmcumrtry@geofortis.com

Cortney Flather

From: Henderson, Amy@Wildlife <Amy.Henderson@wildlife.ca.gov>
Sent: Thursday, March 31, 2022 11:17 AM
To: Cortney Flather
Subject: RE: Notice of Public Hearing Minor Amendment #2021-001, Geofortis Minerals LLC- Long Valley Pozzolan Mine (91-18-0037)

This message comes from an external sender. EXTERNAL SENDER WARNING!

Cortney,

The measures below are vague and should not be considered mitigation for impacts to this plant species. The white woolly buckwheat (*Eriogonum ochrocephalum* var. *ochrocephalum*) is a California Rare Plant Rank 2B.2 which means it is rare, threatened, or endangered in California but common elsewhere. Since this species is ranked a 2B.2, it qualifies under CEQA guidelines 15380 as an endangered or threatened species, but the project itself is not subject to CEQA so I am assuming it is entirely under the jurisdiction of the Bureau of Land Management. With that said, I feel measure number one could be written with more detail and clarity. The Department does not recommend transplantation because it may work for one year but not over the course of many years. If a project applicant would like to transplant species, they would then also accept that they will need to monitor the transplant for a minimum of ten years. What CDFW looks for is that once transplanted, the species will reproduce on a regular basis. Oftentimes what we see is that the transplanted individual dies before doing that. In this case, white woolly buckwheat is a perennial, so once transplanted, it should reproduce for a number of years. The second sentence discusses seed collection. Seeds should be collected with someone familiar with the species and with seed collection – a qualified botanist. There are entire businesses that collect and store seed. Storing of the seed is important and the measure should specify more than “scientifically sound collection and storage techniques.” There are specific collection and storage techniques that should be utilized and specified in this measure. In my opinion, the applicant should avoid this species and mine around it. Perhaps this would all be discussed in more detail in the conservation plan that would be prepared. Measure number two should specifically call out that the plan should be developed prior to the start of the project or vegetation removal.

Did you need anything more than what I wrote above? Please let me know.

Thanks,

Amy Henderson
Senior Environmental Scientist (Specialist)
Interior Conservation Planning and Cannabis
601 Locust Street
Redding, CA 96001
(530) 598-7194 (cell)
Amy.Henderson@wildlife.ca.gov

RECEIVED

MAR 31 2022

LASSEN COUNTY DEPARTMENT OF
PLANNING AND BUILDING SERVICES

From: Cortney Flather <CFlather@co.lassen.ca.us>
Sent: Monday, March 21, 2022 4:20 PM
To: Henderson, Amy@Wildlife <Amy.Henderson@wildlife.ca.gov>