

13.0 RULE 6.4.13: EXHIBIT M - OTHER PERMITS & LICENSES

A statement identifying which of the following permits, licenses and approvals the Operator/Applicant holds or will be seeking in order to conduct the proposed mining and reclamation operations: effluent discharge permits, air quality emissions permits, radioactive source material licenses, the State Historic Preservation Office clearance, disposal of dredge and fill material (404) permits, permit to construct a dam, well permits, explosives permits, highway access permits, U.S. Forest Service permits, Bureau of Land Management permits, county zoning and land use permits, and city zoning and land use permits.

COUNTY PERMITS AND APPROVALS

• Lake County Conditional Use Permit – (Appendix 13-1)

Note: 2011 Permit 11-07 is included. This permit once updated will be provided to the Division for review.

- Parkville Water District- Lake County -(Appendix 13-2)
- Noxious Weed Management Plan- (Appendix 13-3)
- Building Permit- (Appendix 13-4)

Note: Building permits for pre-2021 construction are included. Additional building permits for; leach tank pad, new crusher, truck scale, filtration building, and temporary RoM storage pad will be provided to the Division for review, when received.

• Certificate of Occupancy (CO) (Appendix 13-5)

Note: CO for pre-2021 construction is included. Additional building permits for; leach tank pad, new crusher, truck scale, filtration building, and temporary RoM storage pad will be provided to the Division for review, when received.

STATE PERMITS AND APPROVALS

• Air Pollution Emission Notice (APEN)-CDPHE; (Appendix 13-6)

Note: APENs have been submitted to the Colorado Department of Public Health & Environment (CDPHE) and will be provided when received.

• Stormwater Permit (Application)- CJK Milling Company LLC-In Process (Appendix 13-7)

• State Historic Preservation Office Consultation (Appendix 13-8)

• Colorado Department of Transportation-CDOT approved road access permit (Appendix 13-9)

- Colorado State Engineer-Monitoring Well Permits (Appendix 13-10)
- Stormwater Permit Leadville Mill (Exhibit U).
- Industrial Discharge Permit. The Mill is a "no discharge facility". Not required.



APPENDIX 13-1

LAKE COUNTY - CONDITIONAL USE PERMIT File: 11-07



8 9/13/2011 10:05 AM OAR R\$0.00 D\$0.00 Patricia Berger Lake County Recorder

OFFICIAL ACTION RECORD / LAKE COUNTY LAND USE

1. TYPE OF REQUEST: Conditional Use Permit Union Milling Company, LLC, Constructive Investments, LLC 2. APPLICANT / OWNER: 3. REPRESENTATIVE: Same as Applicant / Owner 4. APPLICANT ADDRESS: 6200 S. Vivian St., Littleton, CO 80127 5. LOCATION OF PROPERTY: 4436 Zuni, Lake County, CO 6. PRESENT ZONING: Industrial Mining (IM) 7. REQUEST DESCRIPTION: Conditional Use Permit to reopen the Leadville Mill LAKE COUNTY PLANNING COMMISSION ACTIONS 8. DATE & TYPE OF ACTION TAKEN A. August 8, 2011 Joint Public Hearing B. August 22, 2011 Continuation of Joint Public Hearing, Planning Commission discussion and recommendation PLANNING COMMISSION ACTION OR RECOMMENDATION TO THE BOARD OF COUNTY COMMISSIONERS 9. APPROVAL: 10. DENIAL: 11. CONDITIONAL APPROVAL: XX 12. OTHER: 13. STIPLULATIONS RECOMMENDED: 14. DATE SUBMITTED TO BOARD OF COUNTY COMMISSIONERS: FORMS SUBMITTED: Official Action Record, Statement of Motion and the project file (#11-07). Planner Signature / Title LAKE COUNTY BOARD OF COUNTY COMMISSIONERS DATE ABOVE REQUEST RECEIVED FROM PLANNING COMMISSION: 8-24-11 15. FORMS RECEIVED: Official Action Record, State of Motion and the project file #11-07 DATE PLACED ON COMMISSIONERS' AGENDA: 9/7/2011 16. DATE & TYPE OF ACTION TAKEN BY THE BOARD OF COUNTY COMMISSIONERS: A. See Lake County Commissioners' Statement of Motion. Α. Β. C. FINAL DECISION BY THE BOARD OF COUNTY COMMISSIONERS 17. APPROVAL: **REASONS:** 18. DENIAL: **19. CONDITIONAL APPROVAL:** XX 20. OTHER: DATE MAILED TO PETITIONER: Commissioner Chair 9-14-11

Signature / Title

January, 1997 March, 1991



4 OAR R\$0.00 D\$0.00

Patricia Berger Lake County Recorder

Statement of Motion

File No. 11-07

At its August 22, 2011 meeting, the Lake County Planning Commission made, seconded, and approved by a vote of six (6) members in favor, zero (0) members in opposition, the following motion regarding File No. 11-07; the motion having been made by Bill Klauber and seconded by Bruce Hix, was approved by an unanimous voice vote:

Klauber moves, regarding File 11-07, that the Planning Commission recommend to the Board of Commissioners that this CUP application be approved with the following conditions:

- 1) All trucks making deliveries must have noise reduction mufflers
- 2) Applicant has one year to complete fencing in accordance with the Colorado Division of Wildlife
- 3) All equipment in operation on site must use Strobe lights to indicate reverse gear by MSHA
- 4) All external lights on facility must be fully shielded, downcast, and not discernable from above or horizontally
- 5) All loads on delivery trucks will be covered
- 6) Must acquire a 10,000 gallon cistern. Applicant must acquire a water plan in 2 years and have it implemented in 3 years.
- 7) Staff will comply with requirements made by the airport engineer.
- 8) Must have written easement.
- 9) 24/7 is allowable
- 10) Applicant will provide 10 regular parking spaces and 1 handicapped space

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357358 9/13/2011 10:05 AM 3 of 4 OAR R\$0.00 D\$0.00

Patricia Berger Lake County Recorder

- 11) Applicant will facilitate training within 90 days of start up
- 12) Board of Commissioners will review the CUP for File 11-07 annually or on any change of ownership or conversion to a custom mill.

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357358 9/13/2011 10:05 AM 4 of 4 OAR R\$0.00 D\$0.00

Patricia Berger Lake County Recorder

Board of County Commissioners Lake County, Colorado

Statement of Motion #11-07

Motion was made by Commissioner Bordogna and seconded by Commissioner Semsack to approve file #11-07. The motion was amended by a motion by Commissioner Bordogna and a second by Commissioner Semsack to include the 13 conditions which included striking the Planning Commission condition #7 and adding two more conditions. The conditions are as follows:

- 1) All trucks making deliveries must have engine brake mufflers
- 2) Applicant has one year to complete and alter existing perimeter fencing in accordance with the Colorado Division of Wildlife recommendations.
- 3) All equipment in operation on site must use strobe lights after dark to indicate reverse gear instead of audible alarms.
- 4) All external lights on facility must be fully shielded downcast.
- 5) All loads on delivery trucks will be covered.
- 6) No load delivers will occur between 11:00 p.m. and 6:00 a.m. beginning 9-1-2011.
- 7) Must acquire a minimum 10,000 gallons of dedicated fire protection water. Applicant must develop a permanent water plan in 2 years and have it implemented in 3 years.
- 8) Must furnish a non-terminable easement within one year
- 9) 24/7 operation is allowable
- 10) Applicant will provide 10 regular parking spaces including 1 handicapped space.
- 11) Applicant will facilitate training for first responders within 90 days of start up
- 12) Board of Commissioners will review the CUP for File 11-07 annually or on any change of ownership or conversion to a custom mill
- 13) Applicant will address sound mitigation upon complaints

Commissioner Bordogna voted in favor of the amendment, Commissioner Semsack voted in favor of the amendment and Commissioner Schaefer voted in favor of the amendment.

Commissioner Bordogna voted in favor of the original motion, Commissioner Semsack voted in favor of the original motion and Commissioner Schaefer voted in favor of the original motion.



APPENDIX 13-2

PARKVILLE WATER DISTRICT - COMMITMENT TO PROVIDE WATER



Parkville Water Di Leadville CO 80461

2015 Poplar Street

Telephone (719) 486-1449

Fax (719) 486-2057

www.parkvillewater.org

To Whom It May Concern,

January 14, 2021

Parkville Water District does intend to provide water to the CJK Milling Company LLC, for the operation of its mill West of Leadville Colorado. Parkville Water District will provide an estimated 35,000 gallons per day for continued operation of this mill. This commitment to provide water service will extend to January 14, 2023, at which time it will be subject to renewal at the discretion of the Parkville Board of Directors and Management.

Sincerely,

Greg Teter,

General Manager



APPENDIX 13-3

LAKE COUNTY - NOXIOUS WEED MANAGEMENT PLAN

Noxious Weed Management Plan Union Milling Company

Union Milling Company Leadville Mill Leadville, Colorado July 2013

1. Plan Objective

The objectives for the Union Milling Company (UMC) Noxious Weed Management Plan for the Leadville Mill are to:

- 1. provide the steps necessary for the Leadville Mill to assess the existence of noxious weeds within and adjacent to the property boundaries;
- 2. provide the Leadville Mill with preventive and treatment measures which will control the spread and establishment of noxious weeds; and
- 3. identify monitoring needs and frequency of monitoring.

2. Description of the Project

The Leadville Mill site permitted area consist of 20.7 acres located about 2.5 miles south of the town of Leadville. It is on the north side of Highway 24 in a heavily wooded area on the lee side of an east-west trending hill at an elevation of 9,750 feet.

3. List of Potential Noxious Weed Species

Following is a list of Chaffee County Noxious Weeds taken from the Chaffee County Website: <u>http://www.chaffeecounty.org/weed-control</u>.

Common Name	Scientific Name
Canada Thistle	Cirsium arvense
Dalmation Toadflax	Linaria dalmatica
Disffuse knapweed	Centaura diffusa
Hoary cress	Lepidium draba
Houndstoung	Cynoglossum officinale
Leafy spurge	Euphorbia esula
Musk thistle	Caruus nutans
Oxeye Daisy	Leucanthemum vulgare
Russian knapweed	Acroptilon repens
Scentless Chamomile	Tripleurospermum inodorum
Spotted knapweed	Centaurea maculosa
Yellow toadflax	Linaria vulgaris

4. Weed Inventory

UMC requested that Larry Walker, Chaffee County Weed Department, inspect the mill site. He found some Oxeye daisies on the fence line next to the water treatment plant (outside of the permitted area) and a few Canada thistle on the pond dike and

the south west corner of the mill (inside the permitted area). Canada thistle was also observed earlier in the year around the mill and the tailings pond. See attached map for weed infestation locations.

5. Control Methods and Treatment Windows

This section addresses the control methods and treatment windows for each of the potential noxious weed species listed on the Chaffee County Noxious Weeds website.

Canada Thistle



by K.G. Beck¹ (Revised 11/08)

Management

The key principle to Canada thistle control is to stress the plant and force it to use stored root nutrients. Canada thistle can recover from almost any stress, including control attempts, because of root nutrient stores. Therefore, returning infested land to a productive state occurs only over time. Success requires a sound management plan implemented over several years.

Cultural control - Grasses and alfalfa can compete effectively with Canada thistle if their growth is favored by good management. Maintain fertility and, if possible, moisture at optimum levels to favor grass or alfalfa growth. Soil analysis can easily determine fertility needs. Be cautious with nitrogen fertilizers, because excess available soil nitrogen may favor weed growth.

These are essential management steps to ensure optimum desirable plant growth and competition. However, competition alone seldom is effective against Canada thistle.

Chemical control - Read the label, follow directions and use precautions. Research at Colorado State University shows that Tordon 22K (picloram), Milestone (aminopyralid), Transline (clopyralid), Banvel/ Vanquish/Clarity (dicamba) and Telar (chlorsulfuron) are effective against Canada thistle. Canada thistle is difficult to control and re-treatment for one to three or more years after the initial application is common. Refer to Table 1 for use rates and application timing. These herbicides are most effective when combined with cultural and/or mechanical control.

nonci op ar o	noncrop areas.			
Herbicide	Rate (Production/A)	Application timing	Comments	
Tordon	1 quart	Anytime when weeds are rapidly growing	Fall applications consistent results; may need re-treatment 1 to 2 years	
Milestone	5 to 7 fl oz	Spring at prebud growth stage; or fall	Use higher rate for older or dense stands; Milestone may be used to edge of ponds or streams; may need re-treatment 1 to 2 years	
Transline	0.67 to 1.33 pints	Spring after all shoots have emerged, rosete to early bud growth stages; or fall	Apply 1 pint/A or more in fall; may need re-treatment 1 to 3 years	
Telar	1 oz	Spring bolting to bud growth stages; or fall	Fall applications most consistent results; essential to use non- ionic surfactant at 0.25% v/v; may need retreatment 1 to 2 years	
Banvel, Vanquish, or Clarity (diacamba)	2 quarts	Spring rosette growth stage; or fall	Fall applications most consistent results; may need re-treatment 2 to 4 years	

 Table 1. Herbicide to control Canada thistle in pasures, rangeland, natural and noncrop areas.

Colorado State University data also indicates that Banvel/Vanquish/Clarity or Telar are effective when combined with 2,4-D as a split-season application.

Apply 2,4-D, 2 quarts per acre (A), in spring when Canada thistle is 10 to 15 inches tall, in pre-bud to early bud growth stages. Re-treat in fall with Banvel/Vanquish/Clarity (2 quarts/A) or Telar (1 ounce/A) to re-growth. Use a surfactant (0.25 percent to 0.5 percent v/v; equivalent to 1 to 2 quarts of surfactant per 100 gallons of spray solution) with Telar for adequate control.

Curtail is clopyralid plus 2,4-D and is effective on Canada thistle but control tends to be less than from Transline. Recent research at Colorado State University shows that the performance of Curtail to control Canada thistle can be improved when preceded by two or three mowings. When Canada thistle infestations occur in situations where root growth would be restricted, such as habitats with high water tables, begin mowing when it is 12 to 15 inches tall. Repeat mowings at about one month intervals. Apply Curtail at 2 to 3 quarts/A in October or about one month after the third mowing. Follow this regimen for two consecutive years.

Mechanical control - Mowing hay meadows can be an effective tool if combined with herbicide treatments. Mowing alone is not effective unless conducted at one-month intervals over several growing seasons. Always combine mowing with cultural and chemical control. Mowing at hay cutting stimulates new Canada thistle shoots to develop from its root system.

In irrigated grass hay meadows, fall herbicide treatments that follow mowing can be an effective management system because more Canada thistle foliage is present after cutting to intercept herbicide. Additionally, root nutrient stores decrease after mowing because the plant draws on them to develop new shoots.

If a Canada thistle infestation exists in a field that will be rotated to alfalfa, control the weed before seeding alfalfa. Alfalfa is an effective competitor only after it is established. It will not adequately establish in a well-developed Canada thistle infestation. A Canada thistle management system can start with crop or grass competition combined with herbicides, with the field rotated to alfalfa.

Biological control - *Ceutorhyncus litura* is a weevil currently used as a biocontrol agent in Colorado. The female lays eggs on the underneath side of Canada thistle leaves in early spring. Larvae bore into the main leaf vein, then down into the plant's crown area. If the population is high enough, plant death can occur, otherwise Canada thistle is stressed and less vigorous when the management plan ends.

Ceutorhyncus alone will not effectively control Canada thistle. It must be combined with other methods to be successful. Combine the weevil with cultural techniques that allow for maximum desirable plant competition. Research to combine *Ceutorhyncus* with herbicides or mowing has not been conducted. Research has shown that biological and chemical controls are compatible for musk thistle. This is most likely true for Canada thistle as well. *Ceutorhyncus litura* is available from the Colorado Department of Agriculture.

Urophora cardui is another biocontrol insect available from the Colorado Department of Agriculture. Females lay eggs on apical meristems of developing shoots. Larvae burrow

into shoots. Their feeding triggers huge galls to form that stress the plant, sometimes killing it. Galls that form near the terminal meristems (e.g., where flowers develop) keep the weed from flowering and reduce seed set.

(Beck, 2013)

Dalmation toadflax and Yellow toadflax



Management

All toadflax species are difficult to control and management plans should integrate as many strategies as possible to increase potential for success. Assess the condition and composition of the existing plant community in an infested area, then determine the approximate composition of the desired plant community needed to achieve land management goals and objectives. Create a management plan that combines various control strategies to foster development of the desired plant community.

Chemical and Cultural Management of Dalmatian Toadflax - Dalmatian toadflax may be controlled with Tordon 22K at 2 pt/A sprayed at flowering or in fall. In Colorado, rates of 2, 4, and 8 pt/A of Tordon were compared and control longevity was greatest from the 2 pt rate, apparently because competition from crested wheatgrass was maintained. Researchers in Wyoming treated Dalmatian toadflax in early September, 1994, with Tordon at 2 pt/A, then seeded the following year in April or August with 'Hycrest' crested wheatgrass, 'Luna' pubescent wheatgrass, 'Critana' thickspike wheatgrass, 'Bozoisky' Russian wildrye, or 'Sodar' streambank wheatgrass. The combination of spraying and seeding competitive grasses controlled Dalmatian toadflax better than spraying alone. Three years after treatments were started, control of Dalmatian toadflax ranged from 61 percent to 86 percent where grasses were seeded in April and from 76 percent to 95 percent from the August seeding, compared to no control from spraying alone.

Telar also controls Dalmatian toadflax when applied in fall but relatively high rates (2 oz product/A) are required. Other research in Colorado shows that addition of a silicone/methylated seed oil surfactant at 1 percent (equivalent to 1 gallon per 100 gallons of spray solution) improves control from Telar.

Table 1: Herbicides used to control Dalmation toadflax.			
Herbicide	Rate (Product/A)	Application Timing	Comments
Tordon 22K	2 pt.	Flowering or fall	Best control when applied at full bloom or fall.
Telar	2 oz.	Fall	Improved control achieved with 1 percent v/v silicone/methylated seed oil surfactant; NIS at 0.25 percent v/v can be used if collateral injury to native forbs and shrubs at risk but control will decrease.
Plateau	12 oz.	Fall	Apply when 25 percent of plant is necrotic, usually after a hard frost. Use a methylated seed oil at 1 qt/A. Cool- season grass injury often occurs from high rates of Plateau applied in fall.

Chemical Control of Yellow Toadflax - Yellow toadflax appears to be more difficult to manage than Dalmatian toadflax. In Colorado, control from Tordon 22K applied at flowering has been most consistent and typically, 4 pt/A is recommended. Yellow toadflax usually recovers from a single application. For example, Tordon applied at 4 or 8 pt/A controlled 13 percent and 69 percent of yellow toadflax three years after treatments were applied. Other research conducted in Colorado suggests that yellow toadflax control may be improved if Tordon is applied over three consecutive years, but control varied with location. In one experiment conducted at high elevation (Camp Hale; elevation approximately 10,000 feet), 4 pt/A of Tordon applied at flowering for three consecutive years at two other locations (White River drainage, elevation approximately 8,500 feet) controlled 69 percent of yellow toadflax.

Telar also may be used to control yellow toadflax. In an experiment conducted in Middle Park near Parshall, Telar at 1.25 oz/A applied during flowering or in fall controlled 84 percent of yellow toadflax one year later. Telar, however, should be applied at 1.5 oz/A and a non-ionic surfactant (NIS) should be included at 0.25 percent v/v (equivalent to 1

quart per 100 gallons of spray solution). Control of yellow toadflax from Telar can be improved if a methylated seed oil at 1 percent v/v is used instead of a NIS, but injury to native forbs and shrubs may increase.

Table 2: Chemical control of Yellow Toadflax.			
Herbicide	Rate (Product/A)	Application Timing	Comments
Tordon 22K	2 to 4 pt.	Flower to fall	Fall timing most consistent. Use higher rate on dense stands. Usually requires application for more than 1 year.
Telar	1.5 to 2 oz	Flower to fall	Fall timing most consistent. Use higher rate for dense stands and usually requires application for more than one year. Must include a NIS at 0.25 percent v/v; control is improved if a methylated seed oil is used but collateral injury to forbs and shrubs may be increased.

Recent CSU research showed that yellow toadflax control was improved when Tordon was mixed with Overdrive. Treatments were applied on August 29, 2007 when yellow toadflax was in the flowering growth stage (not all shoots were flowering) and vegetative root buds 0.5 to 0.75 inches long were present on about 70 percent of crowns examined. Tordon applied alone at 2 or 4 pt/A controlled 53 percent and 70 percent of yellow toadflax, respectively, about one year after treatments were applied; however, when these rates were mixed with Overdrive at 6 oz product/A control improved to 97 percent and 94 percent, respectively. This experiment is being repeated to determine if improved control is consistent.

Escort, 2,4-D amine, Banvel, and Paramount controlled from 5 percent to 24 percent of yellow toadflax one year after single treatments were applied at flowering. Plateau showed some potential to control yellow toadflax in another Colorado experiment where 8 oz/A applied once in fall controlled 59 percent of yellow toadflax one year later. While this level of control is unsatisfactory, sequential treatments may increase control but experiments must be conducted to test this hypothesis.

Mechanical and Chemical Control of Yellow Toadflax - Mowing combined with spraying Tordon did not improve control in an experiment conducted near Hesperus, Colorado. Yellow toadflax was mowed three times per year then treated with Tordon at 4 pt/A in fall for two consecutive years and compared to Tordon applied at 4 pt/A at flowering also for two consecutive years. Yellow toadflax control was the same (85 percent) whether Tordon treatments were combined with mowing or not.

Biological Control of Toadflaxes - Several classical biocontrol agents are available to use against toadflaxes. However, the success of these agents remains largely unknown. A defoliating moth (Calophasia lunula), an ovary-feeding beetle (Brachypterolus pulicarius), and two-seed capsule-feeding weevils (Gymnaetron antirrhini and G.netum) have been released in the U.S. and Canada to control all toadflax species. Particularly the flowering and seed feeding insects should help decrease seed production.

A stem-boring weevil (Mecinus janthinus) and a root-boring moth (Eteobalea intermediella) also were released in Canada and the U.S. to control all species of toadflax. These species may help to control shoots and seed production as well as decrease root vigor, but data are unavailable to document their effects. Several of these classical biocontrol agents are available from the Colorado Department of Agriculture Insectary in Palisade. Very few published studies are available to determine whether grazing by livestock will effect any control of Dalmatian or yellow toadflax.

(Beck, 2013)

Diffuse knapweed and Spotted Knapweed

Management

Diffuse and spotted knapweed can be managed similarly. They are readily controlled



Figure 4. Diffuse knapweed flowers, note fringe on sides of bracts and long terminal spine on bract tips.

flowers; note dark-tipped bracts and lack of long terminal spine on tip of bract.

Figure 5. Spotted knapweed Figure 6. Diffuse knapweed on left, spotted knapweed on right.

with herbicides. However, the weeds will reinvade unless cultural techniques are used.

Chemical control - Research conducted at Colorado State University indicates that Tordon 22K (picloram), Milestone (aminopuralid), Transline (clopyralid), Curtail (clopyralid + 2,4-D), or Banvel/Vanquish/Clarity (dicamba) control diffuse knapweed. Tank mixes of Banvel/Vanquish/Clarity plus 2,4-D at 1 pt + 2 pt/A or Banvel/Vanguish/Clarity control diffuse knapweed. Refer to Table 1 for rate and timing recommendations.

Table 1. Herbicide used to control diffuse and spotted knapweed.			
Herbicide	Rate (Production/A)	Application timing	Comments
Tordon	1 to 2 pints	Spring at rosette to mid- bolt growth stages; or fall	Use higher rates for older or dense stands
Milestone	5 to 7 fl oz	Spring at rosette to bolting growth stages; or fall	Use higher rate for older or dense stands; Milestone may be used to edge ponds or streams
Transline	0.67 to 1.33 pints	Spring after all shoots have emerged, rosette to early bud growth stages; or fall	Use higher rate for older or dense stands
Curtail	2 to 3 quarts	Spring after all shoots have emerged, rosette to early bud growth stages; or fall	User higher rate for older or dense stands
Banvel, Vanquish, or Clarity (diacamba)	1 to 2 pints	Spring rosette growth stage; or in fall	Use higher rate for older or dense stands

Tank mixes of Banvel/Vanquish/Clarity plus 2,4-D at 1 pint + 2 pints/A or Banvel/Vanquish/Clarity plus Tordon 22K at 1 to 2 pints + 0.5 to 1

pint/A or Tordon plus 2,4-D at 0.75 pint + 2 pints/A all control diffuse knapweed. These tank-mixes may save money and reduce grass injury resulting from higher use rates of a single herbicide. Adding 2,4-D to a tank mix, however, with very selective herbicides such as Tordon, Milestone, or Transline, broadens the spectrum of activity and may result in increased injury to desirable native forbs (broadleaf plants) and shrubs, which are important components of the plant community to resist re-invasion by weedy forbs (broadleaf weeds like diffuse and spotted knapweed).

Spotted knapweed and diffuse knapweed generally occupy the same areas in Colorado, so the same herbicide treatments can be applied. Weed scientists at Montana State University indicate that Tordon controls spotted knapweed for two to three years, but the weed will reinvade the area unless other management techniques are used. Milestone also is very effective to control spotted knapweed and Transline, Curtail, and Banvel/Vanquish/Clarity also control spotted knapweed and these herbicides too should be coupled with cultural control.

Cultural control - If desirable plant (grasses and forbs) competition is evident in diffuse or spotted knapweed stands, judicious herbicide application that does not injure desirable plants (especially grasses) may allow them to compete effectively with the weeds. Irrigation (where possible) may help stimulate grass competition in these cases. However,

infested rangeland or pastures often are degraded, allowing knapweed invasion, and herbicides alone will not restore the land to a productive state. Seeding suitable perennial grasses, forbs, and shrubs is necessary to prevent weed reinvasion.

(Beck, 2013)

Hoary cress



Keys to Control:

•Exhaust the root system and eliminate seed production by mowing or treating with herbicides.

•Maintain a healthy cover of perennial plants to discourage the establishment and spread of hoary cress.

Biocontrol. Currently, there is little information aboutbiological controls that attack hoary cress. Sheep grazing may control whitetop, but evidence is limited. Managing the grazing is important so desirable plant species are not damaged.

Mechanical: Mowing 2-3 times a year for several years may slow the spread and reduce seed production of hoary cress. Mowing may increase the effectiveness of vsubsequent herbicide application (Sheley and Stivers 1999). Mowing should be conducted during the bud stage and repeated when the plants re-bud. The effectiveness of a mowing program can be increased by planting perennial grasses as competitors.

Fire: Rapid growth rate may favor hoary cress after fires which temporarily eliminate native vegetation. Plants may resprout from rhizomesor establish from seeds (FEIS 1996).

Herbicides:Hoary cress is most commonly controlled with herbicides. However, multiple applications are usually needed to provide lasting control. The best time to apply herbicides is in May or June before flowering. The non-crop herbicides etsulfuron and chlorsulfuron are themost effective herbicides as long as the plants still have green tissue (CSU1998a). It is important to use a non-ionic surfacet ant with the herbicide (Sheley and Stivers 1999). 2,4-D + dicamba is very effective when applied during the early pre-bud stage (late May through early June) (CSU 1998a). Glyphosate at 1.5 lb ai/acre applied during the flower stage will provide Weed Profile: Whitetop (Hoary cress) 3 good control of hoary cress. Picloram does not control whitetop. Also, spraying followed by spring mowing can control hoary cress by up to 90% (FEIS 1996). Cultural/Preventive:

Cultivation alone will control hoary cress when tillage begins at flowerbud stage and is repeated every ten days throughout the growing seas on (FEIS 1996). Reseeding of depleted areas with competitive grasses would probably be an effective complement to sheep grazing. Also, nitrogen fertilization can increase the growth of grasses and slow the rate of whitetop invasion (Sheley and Stivers 1999).

(Baker)

Houndstongue



Management

Cultural control. Maintaining a healthy population of native perennials the best way to prevent the establishment and spread of houndstongue.

Mechanical control. Since houndstongue reproduces exclusively by seed, cutting or pulling plants should provide control. However, plants may re-grow if the root crown is not completely removed. Tillage, where practical, will control houdstongue. Mowing second year plants during flowering but before seed maturation may reduce see production and even kill the plant.

Chemical control.

Trade Name (common name)	Active ingredient/Acre (Product/Acre)	Remarks
Ally/Escort (metsulfuron)	1 oz. + surfactant (0.6 oz)	Apply in spring during bolt- ing. Always add a non- ionic surfactant at 0.25% v/v
Plateau (imazapic)	8 to 12 fl oz (2 to 3 oz)	
Tordon 22K (picloram)	1 to 2 pt (0.25 to 0.5 lb)	Apply in spring when ac- tively growing.
Vanquish/Clarity (dicamba)	1 to 2 qt (1 to 2 lb)	Apply in spring when ac- tively growing.

(Baker, 2003)

Leafy spurge



Management

Leafy spurge is difficult to manage and can recover from almost any control effort. Therefore, a management scheme that combines control methods over four to five years is recommended. Even after that time, monitor infestations for recurrence and adopt a maintenance program.

Cultural control - Vigorous grass growth is an important aspect of leafy spurge control. Over-grazing stresses grasses and makes them much less competitive with weeds, leafy spurge in particular. Irrigation, where applicable, may favor grass growth and make it more competitive with leafy spurge. **Chemical control -** For optimum leafy spurge control, proper timing of herbicide application is imperative. Research from North Dakota-State University indicates that Tordon 22K (picloram) 2,4-D, Banvel/Vanquish/Clarity (dicamba) are most effective when applied in spring when true flowers emerge (not just bracts). Fall application to leafy spurge regrowth also is good timing for these herbicides. Refer to Table 1 for rates and application timings.

Table 1. Herbicide rates and application timings to control leafy spurge.			
Herbicide	Rate (Production/A)	Application timing	Comments
Tordon	1 quart	Spring at flowering growth stage; or fall	May need treatment 3 to 4
Plateau	8 to 12 fl oz	Early fall (August through October) before loss of latex	Use higher rate for older and dense stands; adds 1.5 to 2 pint/A of methylated seed oil; high rate or consecutive year treatments may injure cool season grasses
Banvel, Vanquish, or Clarity (diacamba)	2 quarts	Spring at flowering growth stage; or fall	Fall applications most consistent results; may need re-treatment 2 to 4 years
Roundup	1 quart each application; 2 quarts total	Apply sequentially; first application first of June and second one month later	Must be combined with grass seeding

Tordon is the most effective herbicide for leafy spurge control. Treat large, readily accessible areas for three to four consecutive years. For more remote locations, Tordon can be spot sprayed at 2/quarts/A but not more than 50% of an acre can be treated in any year. Monitor infestations after treatment and retreat with 1 quart/A of Tordon when shoot control is less than 75 percent.

Tordon may be tank-mixed with 2,4-D to provide adequate control. Apply 1 to 1.5 pints of Tordon with 1 to 1.5 quarts/A of 2,4-D in spring when leafy spurge flowers. When this application is made for three to five consecutive years, leafy spurge shoot control is generally 80 to 90 percent and cattle will feed in the area again.

Plateau (imazapic) can be used to control leafy spurge in pastures, rangeland, and noncrop areas. It can be used safely around trees but may temporarily injure cool-season perennial grasses. Apply Plateau in fall while milky latex still is present in the plant. Add a methylated seed oil to the spray solution. A liquid nitrogen fertilizer solution may be added to the spray mixture to increase weed control, but it may increase cool-season perennial grass injury. Injury tends to increase with late fall applications. Banvel/Vanquish/Clarity also is effective against leafy spurge. When applied in spring at flowering for three consecutive years. Often control is not very good in the first year but improves over the next two years. At that time, a maintenance schedule that uses low rates of Banvel/Vanquish/Clarity + 2,4-D (4 to 8 ounces + 0.5 to 1 quart/A), or Tordon + 2,4-D (1 pint + 1 quart/A) as needed can be used to keep infestations under control. **Note: Avoid using soil-active herbicides such as Tordon or Banvel/Vanquish/Clarity near windbreak plants or other desirable woody vegetation.** Plant injury or death can occur. Also, do not allow any herbicide to drift onto desirable woody vegetation for the same reasons.

Roundup (glyphosate) is most effective when applied sequentially at one month intervals, coupled with fall grass seeding. Make the first application at the beginning of June and a second application one month later. Occasionally, leafy spurge will recover from these Roundup treatments. An application of 2,4-D (2.0 quart/A) in September can control regrowth. Sow perennial grasses in later fall as a dormant seeding (seed later enough that grass seedlings will not emerge until following spring).

(Beck, 2013)

Musk thistle



Management

Cultural control - Maintaining pastures and rangeland in good condition is a primary factor for musk thistle management. To favor pasture and rangeland grass growth, do not

overgraze. Fertilize only when necessary and according to soil testing recommendations. To successfully manage musk thistle, prevent seed formation.

Mechanical control - Musk thistle will not tolerate tillage and can be removed easily by severing its root below ground with a shovel or hoe. Mowing can effectively reduce seed output if plants are cut when the terminal head is in the late-flowering stage. Gather and burn mowed debris to destroy any seed that has developed.

Chemical control - Several herbicides are registered in pasture, rangeland and noncrop areas to control musk thistle. Tordon 22K (picloram), Milestone, Transline, Banvel/Vanquish/Clarity (dicamba), 2,4-D, or Banvel/Vanquish/Clarity plus 2,4-D are commonly used. Apply these herbicides in spring or fall to musk thistle rosettes. Refer to Table 1 for rates and application timings. Applications during the reproductive growth stages with these herbicides (bud through flowering) will not eliminate viable seed development.

Escort (metsulfuron) or Cimarron Extra (chlorsulfuron) also can be used in pastures, rangeland, and non-crop areas. Research from Colorado State University and the University of Nebraska shows that chlorsulfuron or metsulfuron prevents or dramatically reduces viable seed formation when applied in spring, up to early flower growth stages. The latest time to apply these herbicides is when developed terminal flowers have opened up to the size of a dime. Add a good agricultural surfactant at 0.25 percent v/v2 to Escort or Cimarron Extra treatments or control is inadequate (equivalent to 1 quart of surfactant per 100 gallons of spray solution).

Table 1. Herbicide rates and application timings to control musk thistle.			
Herbicide	Rate (Production/A)	Application timing	Comments
Tordon	0.5 to 1 pint	Spring at rosette growth stage; or in fall	Use higher rates for older or dense stands
Milestone	3 to 5 fl oz	Spring at rosette growth stage; or in fall	Use higher rate for older or dense stands; may be used to edge ponds or streams
Transline	0.67 to 1.33 pints	Spring at rosette to early bolting growth stages; or in fall	Use higher rate for older or dense stands
Banvel, Vanquish, or Clarity (diacamba)	1 to 2 pints	Spring rosette growth stage; or in fall	Use higher rate for older or dense stands
Cimarrron	0.5 oz	Spring rosette to early bud growth stages; or to fall rosettes	Add non-ionic surfactant at 0.25% v/v
Escort	0.5 oz	Spring to rosette to	Add non-ionic surfactant

early bud growth	at 0.25% v/v
stages; or to fall	
rosettes	

Biological control - The Colorado Department of Agriculture has established a weevil, *Trichosirocalus horridus*. This weevil attacks the crown area of musk thistle rosettes and kills or weakens the plant before it bolts. This weevil is being distributed throughout Colorado by the Department of Agriculture. It tends to be more effective than the seed head weevil.

The musk thistle seed head weevil, *Rhinocyllus conicus*, can be found throughout Colorado. The female deposits her eggs on the back of developing flowers and covers them with chewed leaf tissue. After eggs hatch, larvae bore into the flower and destroy developing seed. The seed head weevil reduces seed production by 50 percent on the average. If used alone, however, it is not an effective management tool. Certain herbicides or mowing can be combined with the seed head weevil if these are used during late flowering stages. This allows the weevils to complete their life cycle and ensures their presence in subsequent growing seasons. The musk thistle seed head weevil is not being redistributed anymore because it attacks many different species of thistles, including native thistles.

(Beck, 2013)

Oxeye Daisy



Management

Cultural control - Prevent the establishment of new infestations by minimizing disturbance and see dispersal and maintain healthy native communities. Contact your local Natural Resources Conservation Service for seed mix recommendations. Bare ground is prime habitat for weed invasions.

Biological control - Goats or sheep can be effective in the control of Oxeye daisy. There are no insect biological controls available for Oxeye daisy. Since biological control agents take years to research, develop and release, no releases are expected in the foreseeable future. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

Mechanical control - Hand pull or dig when soil is moist and infestations are small. Oxeye daisy is fairly shallow rooted, make sure to pull up all of the roots. Bag specimens carefully so as to not scatter seeds if removed during or after flowering.

Chemical control -

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre.

HERBICIDE	RATE	APPLICATION
		TIMING
Metsulfuron (Escort	1 oz product/acre plus 0 25% y/y pop-jopic	Surfactant is absolutely
AI)	surfactant	growth stage. 1 oz product is the minimum eradication rate based on best treatment observed in several CSU experiments. (Summer)
Chlorsulfuron (Telar)	1 oz product/acre plus 0.25% v/v non-ionic surfactant	Surfactant is absolutely necessary. Apply at flowering growth stage. (Summer)

Russian knapweed



Russian Knapweed

Management

Like other creeping perennials, the key to Russian knapweed control is to stress the weed and cause it to expend nutrient stores in its root system. An integrated management plan should be developed that places continual stress on the weed. Currently, the best management plan includes cultural control combined with mechanical and/or chemical control techniques. A single control strategy, such as mowing or a herbicide, usually is not sufficient.

Russian knapweed typically invades degraded areas, dominating the plant community and desirable plants (e.g. perennial grasses). Seeding competitive, perennial grass species (cultural control) after Russian knapweed has been stressed by other control measures (set-up treatments) is essential. Set-up treatments may include chemical or mechanical methods.

Cooperative research between Colorado State University and the University of Wyoming showed that chemical set-up treatments were superior to mowing. Curtail (clopyralid + 2,4-D), Escort (metsulfuron), and Roundup (glyphosate) were used to suppress Russian

knapweed. Then perennial grasses were sown in late fall as a dormant seeding. Tillage is necessary to overcome the residual allelopathic effects of Russian knapweed. Curtail (3 quarts per acre) (A) or Escort (1 ounce/A) were applied at the bud-growth stage. Roundup was applied twice at 1 quart/A, first at the bud-growth stage and again about 8 weeks later. Curtail controlled Russian knapweed best and Roundup failed to control it.

None of the herbicides injured seeded grasses. Grasses established similarly among herbicide suppression treatments, even though Russian knapweed control varied. However, where Escort or Roundup was used to suppress Russian knapweed, additional herbicide treatments would be necessary to achieve acceptable control.

While two mowings eight weeks apart (first at bud growth stage), suppressed Russian knapweed during that year, the weed recovered vigorously the subsequent growing season. Perennial grasses established in the mowing treatments but much less than in herbicide treatments. Seeding desirable forbs and shrubs also may be effective to prevent Russian knapweed reinvasion, but research is necessary to test this hypothesis.. Two mowings per year for several years may control Russian knapweed better than in our experiments, but further research also is needed to test this hypothesis. Currently no biological control is available for this weed.

Chemical control - In most circumstances, an herbicide alone will not effectively manage Russian knapweed. However, there may be situations where desirable plants within a Russian knapweed infestation may compete effectively with the weed if it is stressed with a single weed management technique.



Figure 5. Russian knapweed root buds on crowns in fall; note black/brown scaly appearance to root crowns—a key identifying characteristic.



Figure 6. Russian knapweed emerged rosettes in fall.

Russian knapweed is controlled by Tordon 22K (picloram), Milestone (aminopyralid), Transline (clopyralid), Curtail, (clopyralid + 2,4-D), and Telar. Refer to Table 1 for rates and timing recommendations. Russian knapweed is very susceptible to fall-applied herbicides. It displays a distinct cycle of root bud development. In late summer (August

into early September) Russian knapweed begins to develop buds on its roots that will emerge to form rosettes that fall or the following spring (Figures 5 and 6). Root buds continue to grow throughout the winter but once rosettes emerge in spring, remaining root buds slough off and no buds occur on roots until this cycle begins again in late summer. This active root bud growth and development in fall through winter may be the reason that Russian knapweed is susceptible to herbicides applied in fall and winter.

Table 1. Herbicide used to control Russian knapweed.			
Herbicide	Rate (Production/A)	Application timing	Comments
Tordon	2 to 4 pints	Spring at bud to mid- flowering growth stages; or late in fall	Use higher rates for older or dense stands; late treatments in fall to dormat plants very effective
Milestone	4 to 6 fl oz	Spring and summer at bud to flowering growth stages; or late in fall	Use higher rate for older stands; late treatments in fall to dormant plants very effective; Milestone may be used to edge of ponds or streams
Transline	1 to 1.33 pints	Spring after all shoot have emerged, bud to mid-flower growth stages; late in or fall	Use higher rate for older or dense; late treatments in fall to dormant plants very effective
Curtail	3 to 4 quarts	Spring after all shoots have emerged, bud to mid-flower growth stages; late in or fall	Use higher rate for older or dense; late treatments in fall to dormant plants very effective
Telar	1 oz	Spring bud to flowering growth stage; or late in fall	Late treatments in fall to dormant plants very effective; temporary injury to cool season grasses may occur from fall treatments

(Beck, 2013)

Scentless Chamomile



How to control it

- The key to control for scentless chamomile is to prevent it from going to seed. In Gilpin County, it will start going to seed mid-July.
- Scentless chamomile has a shallow root system, which allows it to be pulled or dug relatively easily.
- There is no biological control for this plant.
- Herbicides such as Roundup are fairly effective when applied at label rates.
- Cultural controls, such as increasing desirable grass levels, may also help outcompete the weed.
- Because of the long-lived seed bank, control efforts will have to be maintained for a number of years.

6. Monitoring Plan

UMC will monitor the site for any noxious weed species on the Chaffee/Lake county list during the duration of the operation. UMC will have the local weed control expert inspect the property in late July. He/she will be asked to identify any new noxious weed infestations and make any recommendations to the current management techniques.

UMC will review both the local weed inspector's recommendations as well as section 5 (Control Methods and Treatment Windows) and implement suggested techniques to manage any newly identified species or to make changes to the existing control methods.

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APPENDIX 13-4

LAKE COUNTY
- BUILDING PERMIT

REQUIRED LAKE COUNTY BUILDING INSPECTIONS

- 1. Footer and Foundation Inspection: To be made after trenches are excavated and forms erected and when all materials for the foundation are delivered on the job. Where concrete from a central mixing plant (commonly termed "transit mixed") is to be used, materials need not be on the job.
- 2. Frame Inspection: To be made after the roof, all framing, fireblocking, and bracing are in place and all pipes, chimneys and all vents are complete. After rough electrical.
- 3. Lath and/or Wallboard Inspection: To be made after all lathing and/or wallboard, interior and exterior, is in place; But before any plastering is applied or before wallboard joints and fasteners are taped and finished.
- 4. <u>Final Inspection</u>: To be made after building is completed and ready for occupancy. Final electrical must be done.

Other Inspections: In addition to the required inspections specified above, the Building Official may make or require any other inspections of any construction work to ascertain compliance with the provisions of this Code and other laws which are enforced by the Building Department.

Make a drawing of your site. Indicate the dimensions of the front, side and rear property lines. Specify which property line is front, the name of the frontage road, and indicate which way is north. Also, indicate all pre-existing structures, their use, size and location on the site. Indicate location of proposed new construction. A complete set of blue prints are required with application.

I hereby acknowledge that I have read this application and state that information given is correct and agree not to start this project until this application is approved and permit issued. I understand that I must give a 24 hour notice on all required phases of construction.

Date of Application <u>DECEMBER 9, 1987</u> APPLICANT'S SIGNATURE - Donald St. Holson Pres LEDOUILLE MINING & MILLING CORP.

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DO NOT DESTROY THIS CARD

This card must be returned to the Building Department with all inspections signed before a



LEADVILLE MINING & MILLING CORP.

MILLSITE SURVEY

SECS. 28\$33 T95 R80W

BOUNDRY SURVEY BY BACKLUND LAND SURVEYS, FRISCO, COLD JULY, 1986 MILLEITE SURVEY BY CALVIN HAUSER JAN, 1987

1"=200'

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Pink copy - I	Lake County /	Assessor	120 4147 61	<u>unager</u>	BY	4	

CHIEF BUILDING INSPECTOR

THIS PERMIT IS NOT TRANSFERABLE



THIS PERMIT IS NOT TRANSFERABLE

Leadville, Colorado

Phone 486-1796

DO NOT DESTROY THIS CARD

This card must be returned to the Building Department with all inspections signed before a Certificate of Occupancy is issued.



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934-5569 baldry associates

architects/engineers/planners 47 so. federál blvd denver, co. 80219









$$M_{a_{1}} : \frac{|||^{2}}{6} : \frac{||L|(4.5)|^{2}}{8} = 4.05 |||^{2} = 48.6 |||^{1}}$$

$$M_{c} : \frac{|||^{2}}{6} : \frac{||L|(10)|^{2}}{6} = 20 |||^{2} = 240 |||^{1}}$$

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$$= \frac{1}{4} \left(\frac{||||^{2}}{1} + \frac{|||^{2}}{1}\right) + 2M_{b} \left(\frac{54}{62} + \frac{|||^{2}}{62}\right) + 240 \left(\frac{|||^{2}}{62}\right)$$

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$$= \frac{1}{4} \left(\frac{.13}{62} + \frac{.13}{62}\right) + 240 \left(\frac{102}{62}\right)$$

$$= \frac{1}{4} \left(\frac{.13}{62} + \frac{.13}{62}\right) + 2M_{b} \left(.87 + 2.01\right) + 627 = \frac{330 + 8914}{4}$$

$$2 \left(3.48\right) M_{b} = 2980$$

$$= 428 |||^{4} = 35.7 |||^{4}$$

$$\leq = 17.8 |||^{3}$$

IF REDUCTION NOT ALLOWED THEN MOVE C' TO INTERSECT ROOF BEAM 5'-G" FROM FOINT "C"

 $72.6 \binom{44}{52} + 2M_0 \binom{46}{52} + \frac{150}{52} + 240 \binom{159}{52} = \frac{4}{4} \binom{13(46)}{52} \cdot \frac{13(150^3)}{52} \\ 2M_0 (3.48) + 77.28 + 580 = \frac{1}{4} \binom{603}{52} + 7076 \\ 6.96M_0 = 1920 + 77 + 580 = 2577 \\ M_0 = 370 \text{ m}^{11} = 30.85 \text{ m}^{11}$

934-5569

baldry associates

architects/engineers/planners 47 so. federal blvd denver, co. 80219



STRUCTURAL CALCULATIONS - PROJECT:		#		DATE:	415/90
	· ·	PAGE	4	OF _	4

LOCATION LOAD LENGTH 10 1 6.25 Å 121 ß 31.6 WELDED TO ORE BIN 4 18' 21 'ے 15.3 171 PER TABLES ALL LOADS OK 201 BUT LENGTHS OVER 15' A PROBLEM D 20.4 12' E 17.0 PEOVIDE BRACING AS REQUIRED 141 20.4 F n' 20.4 6 8' 8.5 H

TYPICAL - COL BRACING - COLS # CED

CHECK COLS:



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AT UPPER LEVEL - USE W BX13 TO BRACE COLUMN & TO SHORTEN SPAN





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baldry associates

architects/engineers/planners 47 so. federal blvd denver, co. 80219



LAKE COUNTY BUILDING PERMIT APPLICATION

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APPLICANT	PLANNING AND ZONING INFORMATION
Name: LEADVILLE MINING É	Type of occupancy: INDUSTRIAL BUILDING
MILLING CORP.	Total floor area $16' \times 18' + 12' \times 16' Ore BindBort Area Sa Et$
Mail Address: <u>P.D. Box 552</u>	Ground Floor Area Sq. Ft. $2 F F = 50 F + 19$
	Second Floor Area Sq. Ft.
	Garage Area Sq. Ft.
City: <u>LEODUILLE (SLO 2046)</u>	Other
Tel. No.: <u>486-2804 or 486-3</u> 000	Total Height: 26
CONTRACTOR	Front Yard Setback:
Name:	Side Yard Setback:
Address:	Rear Yard Setback:
City:	·
Tel. No.:	PERMIT #
ARCHITECT ENGINEER	A22 (55)
<u>MKONTIBOT BROTHBAR</u>	755
Name:	
Address:	DO NOT MOTTE IN THIS SPACE
<u> </u>	bo not write in into stree
State License No.:	
Tel. No.:	Approved
	Disapproved
Dwell Comm Indust X Other	Violation of Article
Brick Block Frame Other STEEL	Plan Approved
	Disapproved
LEGAL DESCRIPTION	Correction A d
Sec. <u>28</u> TS. <u>9-5</u> R. <u>BOW</u>	$\frac{\omega}{2} \frac{\partial \psi}{\partial t}$
Subdivision	Engineer
Unit Block Lot	Contractor
Lot Size, Width Depth Area	Owner
Water Service By NONE YET	Building Costs \$ <u>7,75,2,00</u>
Approved Septic Fermit <u>NONE \sqrt{ET}</u>	Building Permit Fee \$ 68.50
TE DEDUTT END MORTH EVALE ADDRESS OF CHEDRENT	
I FERRIT FOR PEOPLEMENE - ADDRESS OF CURRENT	LARE COUNTY BUILDING INSPECTOR
	Date of Approval 11-4-87

1. K. S.

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REQUIRED LAKE COUNTY BUILDING INSPECTIONS

- 1. Footer and Foundation Inspection: To be made after trenches are excavated and forms erected and when all materials for the foundation are delivered on the job. Where concrete from a central mixing plant (commonly termed "transit mixed") is to be used, materials need not be on the job.
- 2. <u>Frame Inspection</u>: To be made after the roof, all framing, fireblocking, and bracing are in place and all pipes, chimneys and all vents are complete. After rough electrical.
- 3. <u>Lath and/or Wallboard Inspection</u>: To be made after all lathing and/or wallboard, interior and exterior, is in place; But before any plastering is applied or before wallboard joints and fasteners are taped and finished.
- 4. <u>Final Inspection</u>: To be made after building is completed and ready for occupancy. Final electrical must be done.

Other Inspections: In addition to the required inspections specified above, the Building Official may make or require any other inspections of any construction work to ascertain compliance with the provisions of this Code and other laws which are enforced by the Building Department.

Make a drawing of your site. Indicate the dimensions of the front, side and rear property lines. Specify which property line is front, the name of the frontage road, and indicate which way is north. Also, indicate all pre-existing structures, their use, size and location on the site. Indicate location of proposed new construction. A complete set of blue prints are required with application.

I hereby acknowledge that I have read this application and state that information given is correct and agree not to start this project until this application is approved and permit issued. I understand that I must give a 24 hour notice on all required phases of construction.

Date of Application	OCTOBER 15.	198	-7 *•
APPLICANT'S SIGNATURE	- Donald	st.	Hlson

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INSPECTIONS WILL NOT BE MADE URDER THIS CARD IS ADDED AND THE LOR

24 HOURS NOTICE REQUESTS FOR SELECTIONS

Lake Cou	inty, Colorado	
Date Issued <u>11-12-87</u> Zoned	Area Area Permit No	
In consideration of the issuance of this all such laws and regulations in the locatio which this permit is granted, and further a plied with in the location, erection and con then be revoked by notice from the County COME NULL AND VOID.	AGREEMENT s permit, the undersigned hereby agrees to comply won; construction and erection of the proposed structure agrees that if the above said ordinances are not fully construction of the above described structure, the permit m Building Inspector and THEN AND THERE IT SHALL Owner	vith for om- nay BE-
Address P. G. Bax 552 - LE	ADVILLE CO BOY61	
LEGAL DESCRIPTION: See 28 75 95	NOTICE RED CONTROL AND VELOPE PERMIT PERM	М., М.,
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NSPECTORS MUST SIGN ALL SPACES BELC BEFORE WORK PROCEEDS ON NEXT STE	P RE-INSPECTIONS	
Inspector Date		
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APPENDIX 13-5

LAKE COUNTY - CERTIFICATE OF OCCUPANCY

Permit Number 933 Date October 5, 1990	erty described below, doos				552 - Leadville, CO 80461	thout pector.
CERTIFICATE OF OCCUPANCY LAKS COUNTY Lake County Courthouse Leadville, Colorado 80461	building constructed under above permit number and on prop ilding Code.	138/5 13867 U. S. Highway #24	Ec. 28, TS.9S., R.8OW.	POSE: Mill Crusher	ng & Milling Corp ADDRESS P.O. Box	No change shall be made in the use of this building wi brior notice and certificate form the Chief Building Ins Chief Building Inspe By:
Issued Without Fee	This certificate verifies that the comply with the Lake County Bu	CONTRACTOR PROPERTY ADDRESS LEGAL DESCRIPTION:	S	FOR THE FOLLOWING PUR	OWNER Leadville Mini	

•

Permit Number 936 Date November 9, 1990	on property described below, does		- Box 552 - Leadville, CO 80461	ding without ing Inspector.
CERTIFICATE OF OCEUPANCY LAKE COUNTY Lake County Courthouse Leadville, Colorado 80461	tding constructed under above permit number and ig Code. 3次/5 86年 U. S. Highway 24	c. 28, TS.9S., R.80W.	SE: Flotation & Gravity Mill & Milling Corp ADDRESS P. O.	change shall be made in the use of this build r notice and certificate form the Chief Build Chief Buildin By:
Issued Without Fee	This certificate verifies that the bull comply with the Lake County Buildin CONTRACTOR PROPERTY ADDRESS	LEGAL DESCRIPTION: See	FOR THE FOLLOWING PURPO OWNER Leadville Mining	No

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APPENDIX 13-6

CO DEPT. OF PUBLIC HEALTH & ENVIRONMENT - AIR POLLUTION EMISSION NOTICE (APEN)

STATE OF COLORADO

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT AIR POLLUTION CONTROL DIVISION TELEPHONE: (303) 692-3150



CONSTRUCTION PERMIT

PERMIT NO: 11LK1369F

INITIAL APPROVAL

DATE ISSUED: SEP N 7 2011

ISSUED TO: Union Milling Company, LLC

THE SOURCE TO WHICH THIS PERMIT APPLIES IS DESCRIBED AND LOCATED AS FOLLOWS:

Truck haul, stockpiling and yard operations for a Gold, Silver, Lead, Zinc and Copper mill operated by Union Milling Company, LLC, located at 13815 Highway 24 (2 Miles Southwest of Leadville), Lake County, Colorado.

THE SPECIFIC EQUIPMENT OR ACTIVITY SUBJECT TO THIS PERMIT INCLUDES THE FOLLOWING:

AIRS ID 002: Run of Mine (ROM) ore haulage, stockpiling transfer, concentrate haulage.

AIRS ID 003: Surface disturbance associated with tailings storage, mill operations, topsoil and overburden stockpiles, ROM Stockpiles and access/haul roads.

THIS PERMIT IS GRANTED SUBJECT TO ALL RULES AND REGULATIONS OF THE COLORADO AIR QUALITY CONTROL COMMISSION AND THE COLORADO AIR POLLUTION PREVENTION AND CONTROL ACT C.R.S. (25-7-101 <u>et seq</u>), TO THOSE GENERAL TERMS AND CONDITIONS INCLUDED IN THIS DOCUMENT AND THE FOLLOWING SPECIFIC TERMS AND CONDITIONS:

REQUIREMENTS TO SELF-CERTIFY FOR FINAL APPROVAL

- YOU MUST notify the Air Pollution Control Division (the Division) no later than fifteen days after commencement of the permitted operation or activity by submitting a <u>Notice of Startup form to the Division</u>. The Notice of Startup form may be downloaded online at <u>www.cdphe.state.co.us/ap/downloadforms.html</u>.Failure to notify the Division of startup of the permitted source is a violation of Air Quality Control Commission (AQCC) Regulation No. 3, Part B, Section III.G.1 and can result in the revocation of the permit.
- 2. Within one hundred and eighty days (180) after commencement of operation, compliance with the conditions contained on this permit shall be demonstrated to the Division. It is the permittee's responsibility to self certify compliance with the conditions. Failure to demonstrate compliance within 180 days may result in revocation of the permit or enforcement action by the Division. Information on how to certify compliance was mailed with the permit or can be obtained from the Division. (Reference: Regulation No. 3, Part B, II.G.2)

page 2 Union Milling Company, LLC Permit No. 11LK1369F Initial Approval

- 3. This permit shall expire if the owner or operator of the source for which this permit was issued: (i) does not commence construction/modification or operation of this source within 18 months after either, the date of issuance of this construction permit or the date on which such construction or activity was scheduled to commence as set forth in the permit application associated with this permit; (ii) discontinues construction for a period of eighteen months or more; (iii) does not complete construction within a reasonable time of the estimated completion date. The Division may grant extensions of the deadline per Regulation No. 3, Part B, III.F.4.b. (Reference: Regulation No. 3, Part B, III.F.4.)
- 4. Within one hundred and eighty days (180) after commencement of operation, the permit number and/or AIRS ID number shall be shall be identified on a sign or placard located at an observable location. (Reference: Regulation No. 3, Part B, III.E.) (State only enforceable)

Emission Limitations and Records

5. Emissions of air pollutants shall not exceed the following limitations (as calculated using the emission factors included in the Notes to Permit Holder section of this permit). Annual records of the actual emission rates shall be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation No. 3, Part B, Section II.A.4)

Fugitive Particulate Matter:14.1 tons per yearFugitive Particulate Matter < 10 μm (PM10):</td>1.6 tons per year.Fugitive Particulate Matter < 2.5 μm (PM2.5):</td>0.2 tons per year.

Note: Compliance with these fugitive emission limits shall be demonstrated by not exceeding the production limits and by operating the controls described in the application to obtain the estimated control efficiencies.

PROCESS LIMITATIONS AND RECORDS

6. This source shall be limited to a maximum waste rock production rate as listed below and all other activities, operational rates and numbers of equipment as stated in the application. Annual records of the actual production rates shall be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation No. 3, Part B, Section II.A.4.)

Waste rock production shall not exceed 56,000 tons per year.

STATE AND FEDERAL REGULATORY REQUIREMENTS

- 7. Visible emissions shall not exceed twenty percent (20%) opacity during normal operation of the source. During periods of startup, process modification, or adjustment of control equipment visible emissions shall not exceed 30% opacity for more than six minutes in any sixty consecutive minutes. (Reference: Regulation No. 1, Section II.A.1. & 4.)
- 8. This source is subject to the New Source Performance Standards requirements of Regulation No. 6, Part A, Subpart LL Standards of Performance for Metallic Mineral Processing Plants including, but not limited to, the following:

page 3		Air Pollution Control Division
Union Milling Co Permit No. 11Lk Initial Approval	ompany, LLC <1369F	
§ 60.38	Applicability and designation of affected facility.	
§ 60.38	32 Standard for particulate matter	
а.	No owner or operator subject to the provisions of this s discharged into the atmosphere from an affected facility contain particulate matter in excess of 0.05 grams per c and exhibit greater than 7 percent opacity. In addition, th of Regulation No. 6, Part A, Subpart A, General Provision	ubpart shall cause to be any stack emissions that lry standard cubic meter le following requirements ons, apply.
b.	No owner or operator subject to the provisions of this su	ubpart shall cause to be

- b. No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from an affected facility any process fugitive emissions that exhibit greater than 10 percent opacity.
- § 60.383 Reconstruction
- § 60.385 Recordkeeping and reporting requirements
- § 60.386 Test methods and procedures

In addition, the following requirements of Regulation No. 6, Part A, Subpart A, General Provisions, apply.

- a. No article, machine, equipment or process shall be used to conceal an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (§ 60.12)
- b. Written notification of construction and initial startup dates shall be submitted to the Division as required under § 60.7.
- c. Records of startups, shutdowns, and malfunctions shall be maintained, as required under § 60.7.
- d. Compliance with opacity standards shall be demonstrated according to § 60.11.
- 9. At all times, including periods of start-up, shutdown, and malfunction, the facility and control equipment shall, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practices for minimizing emissions. Determination of whether or not acceptable operating and maintenance procedures are being used will be based on information available to the Division, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (Reference: Regulation 6, Part A. General Provisions from 40CFR60.11)

Union Milling Company, LLC Permit No. 11LK1369F Initial Approval ADDITIONAL REQUIREMENTS

page 4

10. The particulate emission control measures listed on the attached page (as approved by the Division) shall be applied to the particulate emission producing sources as required by Regulation No. 1, Section III.D.1.b.

- 11. A revised Air Pollutant Emission Notice (APEN) shall be filed: (Reference: Regulation No. 3, Part A, II.C)
 - a. Annually whenever a significant increase in emissions occurs as follows:

For any criteria pollutant:

For sources emitting **less than 100 tons per year of a criteria pollutant**, a change in annual actual emissions of five (5) tons per year or more, above the level reported on the last APEN; or

For any non-criteria reportable pollutant:

If the emissions increase by 50% or five (5) tons per year, whichever is less, above the level reported on the last APEN submitted to the Division.

- b. Whenever there is a change in the owner or operator of any facility, process, or activity; or
- c. Whenever new control equipment is installed, or whenever a different type of control equipment replaces an existing type of control equipment; or
- d. Whenever a permit limitation must be modified; or
- e. No later than 30 days before the existing APEN expires.

GENERAL TERMS AND CONDITIONS:

- 12. This permit and any attachments must be retained and made available for inspection upon request. The permit may be reissued to a new owner by the Division as provided in Regulation No. 3, Part B, Section II.B upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.
- 13. If this permit specifically states that final approval has been granted, then the remainder of this condition is not applicable. Otherwise, the issuance of this construction permit does not provide "final" authority for this activity or operation of this source. Final approval of the permit must be secured from the Division in writing in accordance with the provisions of 25-7-114.5(12)(a) C.R.S. and Regulation No. 3, Part B, Section III.G. Final approval cannot be granted until the operation or activity commences and has been verified by the Division as conforming in all respects with the conditions of the permit. Once self-certification of all points has been reviewed and approved by the Division, it will provide written documentation of such final approval. Details for obtaining final approval to operate are located in the Requirements to Self-Certify for Final Approval section of this permit.
- 14. This permit is issued in reliance upon the accuracy and completeness of information supplied by the applicant and is conditioned upon conduct of the activity, or construction, installation and operation of the source, in accordance with this information and with representations made by the applicant or applicant's agents. It is valid only for the equipment and operations or activity specifically identified on the permit.

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Union Milling Company, LLC Permit No. 11LK1369F Initial Approval

- 15. Unless specifically stated otherwise, the general and specific conditions contained in this permit have been determined by the Division to be necessary to assure compliance with the provisions of Section 25-7-114.5(7)(a), C.R.S.
- 16. Each and every condition of this permit is a material part hereof and is not severable. Any challenge to or appeal of a condition hereof shall constitute a rejection of the entire permit and upon such occurrence, this permit shall be deemed denied *ab initio*. This permit may be revoked at any time prior to self-certification and final authorization by the Division on grounds set forth in the Colorado Air Quality Prevention and Control Act and regulations of the AQCC including failure to meet any express term or condition of the permit. If the Division denies a permit, conditions imposed upon a permit are contested by the applicant, or if the Division revokes a permit, the applicant or owner or operator of a source may request a hearing before the AQCC for review of the Division's action.
- 17. Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollution Emission Notice (APEN) must pay an annual fee to cover the costs of inspections and administration. If a source or activity is to be discontinued, the owner must notify the Division in writing requesting a cancellation of the permit. Upon notification, annual fee billing will terminate.
- Violation of the terms of a permit or of the provisions of the Colorado Air Pollution Prevention and Control Act or the regulations of the AQCC may result in administrative, civil and/or criminal enforcement actions under Sections 25-7-115 (enforcement), -121 (injunctions), -122 (civil penalties), -122.1 (criminal penalties), C.R.S.

The Gov!

Charles N. Pray, P.E.-P.L.S. Permit Engineer

Bv

R K Hangóck III, P.E. Construction Permits Unit Supervisor

Permit History

Issuance	Date	Description
Initial Approval	This Issuance	Issued to Union Milling Company, LLC.

page 6 Union Milling Company, LLC Permit No. 11LK1369F Initial Approval Notes to permit holder:

- The production or raw material processing limits and emission limits contained in this permit are based on the production/processing rates requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedance of any specific emission control regulation or any ambient air quality standard. A revised air pollution emission notice (APEN) and application form must be submitted with a request for a permit revision.
- 2. This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee shall notify the Division of any malfunction condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than noon of the next working day, followed by written notice to the Division addressing all of the criteria set forth in Part II.E.1. of the Common Provisions Regulation. See: <u>http://www.cdphe.state.co.us/regulations/airregs/5CCR1001-2.pdf</u>.
- 3. This source is classified as a: Minor source
- 4. In accordance with C.R.S. 25-7-114.1, the Air Pollutant Emission Notices (APENs) associated with this permit are valid for a term of five years. As of the issuance of this permit, the five-year term for these APENs expires per the table below. A revised APEN shall be submitted no later than 30 days before the five-year term expires.

AIRS Point	Date of Expiration
002	February 16, 2016
AIRS Point	Date of Expiration
AIRS Point 003	Date of Expiration February 16, 2016
AIRS Point 003	Date of Expiration February 16, 2016
AIRS Point 003	Date of Expiration February 16, 2016

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5. The emission levels contained in this permit are based on AP-42 emission factors and equations:

Emissions from vehicle travel on site (AP-42, Ch. 13.2.2, Equation 1.a:

Total Vehicle Miles Travelled/Day (VMT/D) = 4.8.

PM Emissions per VMT/D = 28 lbs

PM10 Emissions per VMT/ D = 7.4 lbs

PM2.5 Emissions per VMT/D = 1.1 lbs

Emissions from Stockpiles and Front End Loader (FEL) operations on site are based on AP-42, Ch. 11.9, Western Surface Mines:

Stockpile wind erosion (56,000 tpy):

PM Emissions per day = 1.8 lbs

PM10 Emissions per day = 0.9 lbs

PM2.5 Emissions per day = Not determined

FEL operations:

PM Emissions per ton = 0.07 lbs

PM10 Emissions per ton = 0.1 lbs

PM2.5 Emissions per VMT/D = 0.001 lbs

NOTE: Emissions from tailings are fully wet.

page 8 Union Milling Company, LLC Permit No. 11LK1369F Initial Approval

PARTICULATE EMISSIONS CONTROL PLAN FOR MINING AND PROCESSING ACTIVITIES

THE FOLLOWING PARTICULATE EMISSIONS CONTROL MEASURES SHALL BE USED FOR COMPLIANCE PURPOSES ON THE ACTIVITIES COVERED BY THIS PERMIT, AS REQUIRED BY THE AIR QUALITY CONTROL COMMISSION REGULATION NO.1, SECTION III.D.1.b. THIS SOURCE IS SUBJECT TO THE FOLLOWING EMISSION GUIDELINES:

- Mining and Processing Activities Visible emissions not to exceed 20%, no off-property transport of visible emissions.
- b. Haul Roads No off-property transport of visible emissions shall apply to on-site haul roads, the nuisance guidelines shall apply to off-site haul roads.
- c. Haul Trucks There shall be no off-property transport of visible emissions from haul trucks when operating on the property of the owner or operator. There shall be no off-vehicle transport of visible emissions from the material in the haul trucks when operating off of the property of the owner or operator.

Control Measures

- 1. Topsoil and overburden stockpiles shall be compacted. Topsoil and overburden stockpiles shall be revegetated within one (1) year of buildout.
- Emissions from the disturbed area, including haulroads, shall be controlled by watering at all times unless natural moisture is sufficient to control emissions. Gravel shall be placed on disturbed areas and haul roads.



APPENDIX 13-7

CO DEPT. OF PUBLIC HEALTH & ENVIRONMENT - STORMWATER PERMIT APPLICATION



1.

COLORADO Department of Public Health & Environment

4300 Cherry Creek Drive S Denver, CO 80246-1530 P 303-692-2000 www.colorado.gov/cdphe/wqcd



Dedicated to protecting and improving the health and environment of the people of Colorado

APPLICATION FOR DISCHARGES ASSOCIATED WITH HARDROCK MINING/ MILLING, AND COAL MINING/PREPARATION ACTIVITIES

For Agency Use Only Permit Number Assigned

CO-____ Date Received

1/23/23

Please print or type. Original signatures are required. This application must be considered complete by the Division before it will initiate permit processing. The Division will notify the applicant if additional information is needed to complete the application. If more space is required to answer any question, please attach additional sheets to the application form. Applications must be mailed or delivered to:

	Colorado Department of Public Health and Environment Water Quality Control Division 4300 Cherry Creek Drive South WQCD-P-B2 Denver, Colorado 80246-1530
TEN	PORARY COVID19 Submission - Digitally signed documents may be emailed to
	cdphe.wgrecordscenter@state.co.us.
Do not follow up wit	h a mailed-in hard copy. The directions for electronic signatures can be found at this <u>FAQ at</u> <u>question 41</u> .
Reason for Application:	X NEW CERT
	RENEW CERT EXISTING PERMIT or CERT # 411153
PERMIT INFORMATION Applicant is:	I Property Owner Contractor/Operator
mine dewatering, and CONTACT INFORMA PERMITTEE (If more tha ORGANIZATION FORMAI	I/or stormwater discharges. TION In one please add additional pages) _ NAME:CJK Milling Company,LLC
a. PERMITTEE the person permit correspo	on authorized to sign and certify the permit application. This person receives all ndences and is legally responsible for ensuring compliance with the permit.
Responsible Posi	
Currently Held E	y (Person):Gary Knippa
Telephone No:_	720-412-8838
email address_	gknippa@msn.com
Organization:	CJK Milling Company, LLC
Mailing Address:	33084 Bergen Mtn Road
City: Evergreer	1 State:COZip:80439
This form <u>must l</u> Per Regulation 6	<u>be signed</u> by the Permittee to be considered complete.

- a) In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official

b. DMR COGNIZANT OFFICIAL (i.e. authorized agent) the person or position authorized to sign and certify reports required by permits including Discharge Monitoring Reports [DMR's], Annual Reports, Compliance Schedule submittals, and other information requested by the Division. The Division will transmit pre-printed reports (ie. DMR's) to this person. If more than one, please add additional pages.

	Same As	1)	Permittee
--	---------	----	-----------

Responsible Position (Title):	General Manger		_
Currently Held By (Person):	Steve Craig		
Telephone No: 303-877-97	701		
email address scraig@unionmilling.com			
Organization: Union Milling Contractors			
Mailing Address:P.O. 620490			
City:Littleton	_ State:CO	Zip:80162	

Per Regulation 61 : All reports required by permits, and other information requested by the Division shall be signed by the permittee or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(i) The authorization is made in writing by the permittee

(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a **named individual** or any individual occupying a named position)

(iii) Written request is submitted to the Division

c. SITE CONTACT local contact for questions relating to the facility & discharge authorized by this permit for the facility.

	Same As 1) Permittee	
	Responsible Position (Title): <u>General Manager</u>	
	Currently Held By (Person): <u>Steve Craig</u>	
	Telephone No: 303.877-9701	
	email addressscraig@unionmilling.com	
	Organization: Union Milling Contractors	_
	Mailing Address:P.O. 620490	
	City: Littleton State: CO Zip:80162	
d.	OPERATOR in Responsible Charge Same As 1) Permittee Responsible Position (Title): Manager	
	Currently Held By (Person): <u>Steve Craig</u>	
	Telephone No: 303-877-9711	
	email address <u>scraig@unionmilling.com</u>	
	Organization: <u>Union Milling Contractors</u> Mailing Address: <u>P</u> .O. 620490	_
	City:LittletonState:COZip:80162	
	Certification TypeCertification Number	

e.	BIL	LING CONTACT 🗌 Same As 1) Pe	ermittee		
		Responsible Position (Title):	Union Milling Co	ntrators Adm:Ass	istant
		Currently Held By (Person):	phanie Veith		
		Telephone No: 720.413-5943	, 		
		email addresssveith@unior	milling.com		
		Organization: Union Milli	ng Contractors		
		Mailing Address:P.O. 620490_			
		City: Littleton	State: <u>CO</u>	_ Zip: <u>80162</u>	
f.	от	HER CONTACT TYPES (check belo	w) Add pages if neces	ssary:	
		Responsible Position (Title):			
		Currently Held By (Person):			
		Telephone No:			
		email address			
		Organization:			
		Mailing Address:			
	_	City:	State:	_ Zip:	
		Pretreatment Coordinator Environmental Contact	□ Property Owner □ Inspection Facilit	v Contact 🛛 🖸	Stormwater Authorized
		Biosolids Responsible Party	Consultant	,	Representative
				C	Other
2.	PEI	RMITTED FACILITY INFORMATION			
Nar	ne o	f Plan, Project or	Leadville Mill		
Dev	/elor	oment: Location of mill site:			
		Street Address (or cross streets): approximately 300ft north of Calif	property boundary is app ornia Gulch.	roximately 550ft north c	of US Highway 24, and Highway 24
		City (if unincorporated, so indicate):	Leadville	County: La	ke
		State and Zip Code:	Colorado 8046	1	
Lat	itud	e and Longitude (approximate center	of site to nearest 15 seco	onds using one of followi	ng formats):
L	atitu	ude: <u>39.23144</u> degrees (to 5 decimal places)	Longitude: -106.3 degrees	3172 (to 5 decimal places)	(e.g., 39.70312°, 104.93334')
3.	ST	ANDARD INDUSTRIAL CLASSIFICAT	ION (SIC) CODE(S) FOR	R THIS FACILITY (Inclu	ude up to 4 in order of importance.
	1	10402		3	4

4. DESCRIBE THE INDUSTRIAL ACTIVITIES WHICH TAKE PLACE ON THIS SITE

Describe the primary industrial activities which take place on site. Include the type of facility plus a brief description of the nature of the business and the industrial processes used. Include a description of the mining, milling, coal preparation, etc. processes where applicable. A process flow sheet would be acceptable.

See Table 1
CJK Milling
Process Flow Sheet

5. IS THIS FOR AN EXPLORATORY, ACTIVE MINING/MILLING, INACTIVE MINING, OR IS THE SITE IN TEMPORARY CESSATION?

Active Milling

If Exploratory - please submit any known water quality/quantity data relative to the discharge and the receiving stream which reflects the conditions prior to the present activity, the length of time the activity is expected to be under exploration, and describe what activities will take place during exploration which could have an impact on the quality of the discharge.

Not Applicable

CJK Milling Company's Leadville Mill will be processing gold and silver

ore.

6. Production: List the principal product(s) produced and maximum production rate.

Gold and silver mine ores will be processed at an estimated daily rate of 400 tons.

7.	Is this a seasonal operation? 🛛 No 🗌 Yes 🛛 If yes, please indicate the months of operation:
	JANFEBMARMARJUNEJULYAUGSEPTOCTKOVEC
8.	Intermittent discharges: Except for storm runoff, are any of the discharges intermittent or seasonal? No XYes Describe the frequency, duration and flow rate of each discharge occurrence.
	Since 2010 no flow rates from the Mill Site ephemeral drainage have been observed.

Activity duration: When did the mining/milling operation commence? Mid-2023

What is the estimated life of the activity from which the discharge(s) identified in item 20 originate? 20 yrs

9. Location map: 7.5 minute USGS quad sheet, or a map of comparable scale. A north arrow shall be shown.

See Stormwater Management Plan Figure 1

10. Site Map:

stream location, numbered discharge points, sampling and flow monitoring points, waste rock piles, spent ore piles, tailing dams/dikes, topsoil piles, location of french drains, mine drainage flow paths, domestic wastewater plants, power plants, truck washing areas, explosive storage areas, parking lots, vehicle maintenance areas, chemical storage areas, crusher areas and land application areas. The outfalls shall be labeled to correspond with the numbers listed in items 20 and 21.

See Appendix 1- Figure 3 and Figure 4

Page 2 of 13 Revised 2/2021

11. Water Balance:

See Table 1

12. OTHER ENVIRONMENTAL PERMITS

Does this facility currently have any environmental permits, or is it subject to regulation, under either of the following programs?

Permit Name	Yes	No	Applied For, Date	Permit No.
a.) Colorado Division of Reclamation, Mining and Safety Permit Anniversary Date	X		June 8,2008	M-1990-57
b.) Underground Injection Control		х		
c.) Dredge or fill permit under Section 404 of the Clean Water Act (CWA) (Army Corps of Engineers)		X		
d.) Resource Conservation and Recovery Act (RCRA)		X		
e.) CDPS Stormwater (If YES, please include copy of site's Stormwater Management Plan)	x		See attached Storm Management Plan and Appendix 1 and 2	
f.) Colorado State Air Pollution Emission		×		
g.) Other:			Lake County Use Permit	TO BE SUBMITTED

b) Does the dewatering area have or possibly have groundwater contamination, such as	

plumes from leaking underground storage tanks, etc.?

ΧΝΟ ΠΥΕΣ

X YES

If <u>YES</u> for **any** of these, please show location of the landfill, tailings or possible groundwater contamination on the location map in item 9 or in the site map sketch in item 10. Please explain the location, extent of contamination, and possible effect on the discharges from this facility.

Contaminated ground water from Californian Gulch Superfund site up gradient from the CJK Mill has affected Mill's shallow groundwater quality (See CDRMS Mill Permit)

14. Bath House/Dry and Sanitary Waste: Is there a bath house/dry at this facility?

Are there sanitary wastewater facilities or sanitary treatment systems at this facility?

If $\underline{\text{YES}},$ what is the disposition of any wastewater generated?

Connected to Leadville Sanitary District Sewer Distribution System See Appendix 1 Figure 3

15. Chemical addition/ treatment (NOT APPLICABLE)

If chemical additives, settling agents, flocculants, or other materials are proposed for use in or to treat wastewater/stormwater prior to discharge, please submit a **Chemical Evaluation Form** with this application.

- a. Is chemical addition/treatment proposed for this facility? (Mill ore will be processed within the mill building $\hfill Yes \hfill Yas$
- b. Did applicant submit a Chemical Approval Form with this application?

Yes X No - chemical addition/treatment not proposed

16. Used or Manufactured Toxics: The applicant must provide a list of any toxic products which the applicant currently uses or manufactures as an intermediate or final product or byproduct.

See Table 2

17. Flow Measurement: What method of flow measurement will be used for each discharge point (e.g., v notch weir, pump capacity, parshall flume, etc.)? Designate whether currently installed or proposed. Identify the minimum and maximum flow measurement capability. List the last date calibrated.

No water discharges have been observed. If flows are observed instantaneous flow measurements will be taken using a V notch weir. See Appendix 1 Figure 3.

18. Improvements: Please provide a description of any abatement requirement, abatement project and projected final compliance dates if subject to any present requirements or compliance schedules for construction, upgrading or operation of waste treatment equipment. List any changes from previous permit.

No water discharges from the mine permit area have been observed.

19. Land Application: Is or will land application of any wastewater be practiced?	🗙 NO 🗌 YES
If Yes, please provide a copy of the material submitted to the Colorado DRMS on the di	scharge and include a copy of the CDRMS
approval where applicable. Briefly describe the process	

Not applicable. **Process water will be recycled and used during the milling process.**

20. Flows, Treatment and Map: Please provide a detailed narrative description for each type of process, operation, storage or area which contributes wastewater to the effluent for each outfall, **including all mine related wastewater, cooling waters, domestic wastewater and stormwater runoff**; the average discharge flow for each outfall (including stormwater outfalls) and a description of the treatment the wastewater receives. The average flow of point sources composed of stormwater may be estimated.

Examples of the process, operation, storage or production areas to document in this section include, but are not limited to:

- all small area exemptions (SAEs) and associated pollutant sources;
- mine vent bore hole pads and associated roads;
- facilities that support the mining operation, such as ventilation facilities; dewatering facilities, laydown areas, material storage areas, subsoil storage; material handling areas;
- coal preparation plant and coal preparation plant associated areas, including train load out areas and associated access roads;
- brushing/grubbing areas; topsoil stockpiles; regrading areas; reclamation areas;
- ore and ore conveyances; mine waste, waste rock; tailings, overburden, topsoil, and roads constructed of these materials;
- all milling/processing areas;
- mine adits or mining areas that currently do, or potentially could, discharge mine water;

- roads, (haul roads/access roads etc) with associated total disturbed area, as applicable;
- rock berms
- sediment traps
- ditches
- ore storage bunkers
- perimeter berms

See Attached Storm water Management Plan Appendix 1 Drainage Plan and Appendix 2 Engineering Control Methods

Use additional sheets if necessary. Additional information on the treatment facilities may be requested during application review.

OUTFALL NUMBER	WASTEWATER SOURCE	TREATMENT USED	AVG FLOW, MGD*	DESIGN FLOW, MGD*	DAILY MAX FLOW, MGD*
001	Up gradient Ephemeral Sources	Sediment Trap	TBD	TBD	TBD

*MGD - Million gallons/day

(See Figure 2)

21. For each outfall provide the latitude, longitude and receiving water and indicate the method used to derive this information. Use additional sheets if necessary. Please refer to instructions.

For each outfall to surface water or discharge to ground water, provide latitude/longitude and receiving water

OUTFALL	LATITUDE	LONGITUDE	RECEIVING WATERS* * Give formation name and distance to surface water for discharges to ground water
001	39 13'26.03N	106 19'59.29W	Discharges to groundwater is unknown. Surface water discharge to an ephemeral surface water is drained into California Gulch.
FACILITY FRONT DOOR	N39°13′44.41″,	W106°19′51.14″	

The following choices for the data acquisition are listed in order of preference. Please check the box that applies to the method used for collection of the locational data of your **Facility and Discharge points**.

Global Positioning System (GPS) unit accurate to within 30 yards.

Global Positioning System (GPS) unit accurate to greater than 30 yards. Google Earth Pro

Engineering drawing/plan with latitude and longitude reference. Other. Explain

Global Positioning System (GPS) unit used where the accuracy unknown. (Google Maps) Point on original USGS topographic mapLeadville South 7.5 minute quadrangle map
22. Are the receiving waters, indicated in item 21, a ditch or storm sewer? 🛛 NO 🗌 YES
If YES, submit documentation that the owner of the ditch or storm sewer allows this discharge. No permit will be processed unless documentation of approval is received.
23. Do you have a certified operator? XNO YES If yes, please list name(s), certification number(s) and certification level(s).

24. Discharge Quality: Analytical data for the following parameters, unless waived by the Division, shall be submitted from at least one sampling of each discharge point as well as state waters upstream of each discharge. Upstream data should be from non-runoff periods, to the extent possible. If more than one outfall is to a common body of water, only one analysis of the receiving water upstream of the upper-most outfall will be required. If the receiving stream is dry during portions of the year, so indicate. In the case of sedimentation ponds for stormwater runoff, one outfall can be sampled if it can reasonably be assumed to be representative of all sedimentation pond outfalls. For new mines, please submit a minimum of one years data for those parameters listed below. Such data must have been obtained on at least a quarterly basis and must be reflective of the water quality prior to any mining activity.

Intermittent headwater channels drain the Mill site. No discharges from the Mill site have been observed. The Mill is not active. No surface water samples have been taken. All adjacent drainages are ephemeral.
APPLICATION for DISCHARGES ASSOCIATED WITH HARDROCK MINING/MILLING; COAL MINING/PREPARATION

PARAMETER	DETECTION LEVEL	PARAMETER	DETECTION LEVEL
Total Dissolved Solids, mg/R	10	Total Recoverable Manganese, mg/R	0.05
Flow, MGD	NA	Dissolved Manganese, mg/R	0.05
pH, s.u.	NA	Total Mercury, mg/R	0.00025
Oil and Grease, mg/R	5	Total Recoverable Nickel, mg/R	0.05
Dissolved Oxygen, mg/R	NA	Potentially Dissolved Nickel, mg/R	0.05
Alkalinity, mg/R	10	Total Recoverable Silver, mg/R	0.0002
Total Suspended Solids, mg/R	10	Potentially Dissolved Silver, mg/R	0.0002
Hardness, mg/R as CaCO3	10	Total Recoverable Uranium, mg/R	0.03
Total Ammonia, mg/R	0.05	Total Recoverable Zinc, mg/R	0.05
Temperature, ^B C Winter	NA	Potentially Dissolved Zinc, mg/R	0.05
Temperature, ^B C Summer	NA	Total Residual Chlorine, mg/R	0.05
Biochemical Oxygen Demand, mg/R	1	Fecal Coliform, #/100 ml	NA
Chemical Oxygen Demand, mg/R	30	Nitrate, mg/R as N	0.1
Dissolved Aluminum, mg/R	0.1	Nitrite, mg/R as N	0.002
Total Arsenic, mg/R	0.05	Sulfide mg/R as H ₂ S	0.1
Total Recoverable Cadmium, mg/R	0.0004	Boron, mg/R	0.05
Hexavalent Chromium, mg/R	0.025	Chloride, mg/R	5
Trivalent Chromium, mg/R	0.05	Sulfate, mg/R	5
Total Chromium, mg/R	0.005	Total Cyanide, mg/R	0.01
Total Recoverable Copper, mg/R	0.005	Total Recoverable Selenium, mg/R	0.002
Potentially Dissolved Copper, mg/R	0.005	Total Cobalt, mg/R	0.006
Total Recoverable Iron, mg/R	0.3	Gross Alpha, piC/R	0.3
Dissolved Iron, mg/R	0.3	Total Radium 226 + 228, pCi/R	8
Total Recoverable Lead, mg/R	0.005	Total Fluoride, mg/R	0.1
Potentially Dissolved Lead, mg/R	0.005	Weak Acid Dissociable Cyanide, mg/R	0.01
Total Phenols, mg/R	0.100	Total Phosphorus, mg/R as P	0.05
Total Organic Nitrogen, mg/R as N	0.05		

25. Dioxin Testing: Each applicant must report qualitative data, generated using a screening procedure not calibrated with analytical standards, for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) if it:

- (a) Uses or manufactures 2,4,5-trichlorophenoxy acetic acid (2,4,5,-T); 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP); 2-(2,4,5-trichlorophenoxy) ethyl, 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorphenyl) phosphorothioate (Ronnel); 2,4,5- trichlorophenol (TCP); or hexachlorophene (HCP); or
- (b) Knows or has reason to believe that TCDD is or may be present in an effluent.
- 26. Whole Effluent Toxicity Testing: WET testing shall be conducted for each outfall which is not solely made up of stormwater or domestic wastewater, unless waived by the Division, on 100% effluent using both Ceriodaphnia dubia and fathead minnows. This requirement is waived where routine testing is currently required under an existing CDPS permit. The test shall be an acute test unless the ratio of stream low flow to effluent design flow is less than 10:1, respectively, and the receiving stream has a Class 1 Aquatic Life Use or Class 2 Aquatic Life Use with all the appropriate aquatic life numeric standards. In the latter case, a chronic test is required. The Division reserves the right to request additional testing as part of the application review process. If so required, the permit application will not be considered complete until the additional testing is submitted. In addition, all applicants must identify any biological toxicity tests which have been performed within the last 3 years on any of the discharges

APPLICATION for DISCHARGES ASSOCIATED WITH HARDROCK MINING/MILLING; COAL MINING/PREPARATION

or the receiving water in relation to a discharge from this facility. Attach WET test results to this application. If so required, the permit will not be processed until the additional information is submitted.

WET testing procedures are described in the "Guidelines for Conducting Whole Effluent Toxicity Tests" which can be obtained from the Division.

Not Applicable

- 27. Priority Pollutant Scan: The results of a priority pollutant scan, unless waived by the Division, for the volatile and acid fractions as shown in Appendix A must be submitted of each discharge.
- 28. Additional Monitoring: All applicants must review the parameters listed in Appendix A and Appendix B to this application, and indicate whether it knows or has reason to believe that these pollutants are present. For every pollutant expected to be discharged, the applicant must briefly describe the reasons the pollutant is expected to be discharged, and report any quantitative data for the pollutant.

A representative surface water sample has not been obtained. Site groundwater sampling from two monitoring wells commenced in 2010. Surface flows have not been observe on site.

- **29.** Please submit a copy all water quality monitoring data of outfalls or receiving streams for which data has been gathered over the last five years for the mining/milling site and which is required by the Division of Minerals and Geology. If not already submitted to the Division, the plan which details the monitoring frequency, type, locations and method of analysis must also be submitted.
- **30.** Pollution Prevention Plans: Please describe any pollution prevention or best management plans currently in place which could result in the improvement of water quality. These could include solvent recycling programs, material containment procedures, education, etc.

See Attached Storm Water Management Plan

31. Historic Drainages: Does historic drainage exist at the site, which is not covered under a CDPS permit? Yes? **No** If so, please provide a map showing the location of the discharges and copies of all analytical information on the discharges. Please sample the discharges for the parameters listed in item 26 and submit those results. This requirement may be waived by the Division if suitable data on the discharges historic quality and quantity exists.

Not Applicable - No site discharges have been observed.

APPLICATION for DISCHARGES ASSOCIATED WITH HARDROCK MINING/MILLING; COAL MINING/PREPARATION

REQUIRED SIGNATURES

Signature of Applicant: The applicant must be either the owner and/or operator of the site. The application <u>must be signed</u> by the applicant to be considered complete. <u>In all cases</u>, it shall be signed as follows: (Regulation 61.4 (1ei)

- a) In the case of corporations, by the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the form originates
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, (a principal executive officer has responsibility for the overall operation of the facility from which the discharge originates).

Signature of Permit Legal Contact

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

truppe Signature of Legally Responsible Person (submission must include original signature) Date Signed Gary Knippa Owner Name (printed Title 01/301 Signature of Operator (submission must include original signature) Steve Craig -Union Milling Contractors Manager

Name (printed

Title

DO NOT INCLUDE PAYMENT - AN INVOICE WILL BE SENT AFTER THE PERMIT IS ISSUED.

Appendix A - Priority Pollutants

Organic Toxic Pollutants in Each of Three Fractions in Analysis by Gas Chromatography/Mass Spectroscopy(GC/MS).

Base/Neutral

Acenaphthene

Anthracene

Benzidine

Acenaphthylene

Benzo(a)pyrene 3,4-Benzofluoranthene

Benzo(a)anthracene

Benzo(ghi)perylene

Benzo(k)fluoranthene

Bis(2-chloroethyl) ether

Butylbenzyl phthalate 2-Chloronaphthalene

Bis(2-chloroethoxy)methane

Bis(2-chloroisopropyl) ether

Bis(2-ethylhexyl)phthalate

4-Bromophenyl phenyl ether

Volatiles

Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chloroethylvinyl Ether Chloroform Dichlorobromomethane 1,1-Dichloroethane 1.2-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloropropane 1,3-Dichloropropylene Ethvlbenzene Methyl Bromide Methyl Chloride Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,2-Trans-dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Vinyl Chloride

4-Chlorophenyl phenyl ether Chrysene Dibenzo (a,h) anthracene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl phthalate Dimethyl phthalate Di-n-butyl phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate 1,2-Diphenylhydrazine (as azobenzene) Fluorene Fluoranthene Hexachlorobenzene Hexachlorobutadiene Hexachlorcyclopentadiene Hexachloroethane Indeno(1,2,3-cd) pyrene Isophorone Naphthalene Nitrobenzene N-Nitrosodimethylamine N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine Phenanthrene Pvrene

2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol P-chloro-m-cresol Pentachlorophenol Phenol 2,4,6-Trichlorophenol

Acid

Pesticides

Pesticides			Metals, Cyanide, and Total Phenols
Aldrin	Endosulfan Sulfate	Alpha-Endosulfan	Total Recoverable Antimony, mg/P
Alpha-BHC	Endrin	Beta-Endosulfan	Total Recoverable Beryllium, mg/P
Beta-BHC	Endrin Aldehyde	Toxaphene	Total Recoverable Thallium, mg/P
Gamma-BHC	Heptachlor		Bromide, mg/P
Delta-BHC	Heptachlor Epoxide		Color
Chlordane	PCB-1242		Sulfite, mg/P
4,4'-DDT	PCB-1254		Surfactants,
4,4'-DDE	PCB-1221		Total Magnesium, mg/P
4,4'-DDD	PCB-1232		Total Molybdenum, mg/P
Dieldrin	PCB-1248		Total Tin, mg/P
PCB-1260	PCB-1016		Total Titanium, mg/P

1,2,4-Trichlorobenzene)

Toxic Pollutants

Asbestos

Hazardous Substances

Acetaldehyde Allyl alcohol Allyl chloride Amyl acetate Aniline Benzonitrile Benzyl chloride Butyl acetate Butylamine Captan Carbaryl Carbofuran Carbon disulfide Chlorphyrifos Coumaphos Cresol Crotonaldehyde Cyclohexane 2,4-D (2,4-Dichlorophenoxy acetic acid) Diazinon Dicamba Dichlobenil Dichlone 2,2-Dichloropropionic acid Dichlorvos Diethyl amine Dimethly amine Dinitrobenzene Diquat Disulfoton Diuron Epichlorohydrin Ethion Ethylene diamine Ethylene dibromide Formaldehyde Furfural Guthion Isoprene Isopropanolamine dodecylbenzenesulfonate

Kelthane Kepone Malathion Mercaptodimethur Methoxychlor Methyl mercaptan Methyl methacrylate Methyl parathion Mevinphos Mexacarbate Monoethyl amine Monomethyl amine Naled Naphthenic acid Nitrotoluene Parathion Phenolsulfanate Phosgene Propargite Propylene oxide **Pyrethrins** Quinoline Resorcinol Strontium Strychnine Styrene 2,4,5-T (2,4,5-Trichlorophenoxy acetic acid) TDE (Tetrachlorodiphenyl ethane) 2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid] Trichlorofan Triethanolamine dodecylbenzenesulfonate Triethylamine Trimethylamine Uranium Vanadium Vinyl acetate Xylene Xylenol Zirconium





Table 2 Mill Process Chemical Summary

Reagent Consumption, Grinding & Agitated Leach Circuit

	Descent	Consumption				
NO.	Reagent	Unit/Rate (lbs./st)	Daily (lbs)	Monthly (tons)		
1	Water	587	234,600	3,578		
2	Flocculant/TNS	1.66	664.00	10.1		
3	Lime - CaO	8.00	3,200	49		
3.5	Caustic Soda-NaOH	0.10	40	0.61		
4	Sodium Cyanide-NaCN	4.00	1,600	24.4		
5	Sodium Bisulfite - NaHSO3	0	0	0		
6	Copper Sulfate - CuSO4	0	0	0		
7	Lead Nitrate - Pb(NO3)2	0.01	4.00	0.06		
8	Ferrous Sulfate-FeSO4	0.5	200	3.1		
9	Zinc Powder-Zn	0.11	44	0.67		
10	Diatomaceous Earth	0.01	4	0.06		
		Flux Materials				
11	Potassium Nitrate-KNO3	0.007	2.8	0.04		
12	Silica-Si	0.01	4	0.06		
13	Borax Glass	0.01	4	0.06		
14	Flourspar-CaF2	<100Lbs/y				
15	Soda Ash-Na2CO3	0.0014	0.56	0.0085		
16	Salt-NaCl	<100Lbs/y				



APPENDIX 13-8

STATE HISTORIC PRESERVATION OFFICE - CONSULTATION

		MAP	
	Colorado Cultural Ro Management D (page 1 of Complete this form for each res appropriate formssee Ma	Accounce Survey Data Form of 4) source in addition to other anual for information	ng
	State Site Number 5LK892 2.	. Temporary Site Number	
3.	Attachments (check as many as apply 4. Prehistoric Archaeological 1 Historical Archaeological Component 1 Sketch/Instrument Map (required) 1 U.S.G.S. Map Photocopy (required) 1 Photograph(s) 1 Other, specify 1	 Official determination (OAHP use only) ☑ Determined Eligible (A +C) - 4/29/96 □ Determined Not Eligible □ Nominated □ Listed □ Need Data □ Contributing to NR Dist. □ Not Contributing to NR Dist. 	
	IDENTIFICATION		
i.	Resource Name Arkansas Valley Smelter		
5.	Project Name/Number Selected Smelter Sites, OU5		
7.	Government Involvement: Local State State	□ Federal ⊠	
	Prehistoric: archaeological site □ paleonton in an existing National Register District? yes □ no Uittaries archaeological site □ building(s) ⊠	name	
	in an existing National Register District? yes ⊠ no □	name Leadville Mining District (5LK856)	
9. 10.	in an existing National Register District? yes ⊠ no □ Owner/Owner/s Address Private Boundary Description and Justification Extent of slag and k	name Leadville Mining District (5LK856)	
9. 10. 11.	Historic: archaeological site □ building(s) ⊠ in an existing National Register District? yes ⊠ no □ Owner/Owner/s Address Private Boundary Description and Justification Extent of slag and k Site Dimensions 1295 E-W m 800 N-S m Area 1,036 Area was calculated as Length x Width OR (leng rectangle/square	structure(s) \boxtimes tobject(s) \boxtimes name Leadville Mining District (5LK856) snown associated features 6,000 m ² (÷4047) 201 acres agth x width) x .785 X ellipse	
9. 10. 11. II. 12	Historic: archaeological site □ building(s) ≥ in an existing National Register District? yes ≥ no □ Owner/Owner/s Address Private Boundary Description and Justification Extent of slag and k Site Dimensions 1295 E-W m 800 N-S m Area 1,036 Area was calculated as Length x Width OR (leng rectangle/square LOCATION Legal Location	structure(s) \boxtimes b)	

Q

State Site # 5LK892	Managemen	nt Data Form 4)13; 386138 4343262 See	e attac
Temporary #	(pag	ge 2 of 4) 5/3/325987 435/3122 6/3/385600 4343102 7)15/3859994 4343321	
13. USGS Quad Leadville south	7.5'⊠ 15' □] Dates(s) (attach photocopy)	
14. County Lake	15. Other Maps		
16. UTM Reference			
A. <u>13;385260</u> mE		<u>4343300</u> mN	
B. <u>13;385720</u> mE		<u>4343080</u> mN	
C. <u>13;385780</u> mE		<u>4343620</u> mN	
D. <u>13;386180</u> mE		<u>4343440</u> mN	
17. Address	Lot	Block Addition	
 III. NATURAL ENVIRONMENT 19. <u>Topographic Feature(s)</u> 			
mountain	ledge	D playa	
\square tableland/mesa	canyon	alluvial fan	
□ ridge	valley	D plain	
saddle/pass	basin floodplain	dune	
	cutbank		
□ slope	arroyo/gully		
biope			
20. Describe on-site topography (mention na	amed landforms)	5LK892 sits on the north terrace above Californ	nia Gulch
20. Describe on-site topography (mention na	amed landforms)	5LK892 sits on the north terrace above Californ	1ia Gulch
20. Describe on-site topography (mention na 21. Site Elevation feet = (x .30	amed landforms)	5LK892 sits on the north terrace above Californ eters 22. Aspect	iia Gulch
 20. Describe on-site topography (mention na 21. Site Elevation <u>9,820</u> feet = (x .30) 23. Degree of slope on site <u>0-20%</u> 	amed landforms) (048) <u>2,993</u> me 24. Soil Depth	5LK892 sits on the north terrace above Californ eters 22. Aspect SE Unknown cm	nia Gulch
 20. Describe on-site topography (mention na 21. Site Elevation <u>9,820</u> feet = (x .30) 23. Degree of slope on site <u>0-20%</u> 25. Soil description (character and color) 	amed landforms) (048) <u>2,993</u> me 24. Soil Depth primarily slag, also	5LK892 sits on the north terrace above Californ eters 22. Aspect SE Unknown cm alluvial soils and gravels.	nia Gulch
 20. Describe on-site topography (mention na 21. Site Elevation <u>9,820</u> feet = (x .30) 23. Degree of slope on site <u>0-20%</u> 25. Soil description (character and color) 26. Depositional environment aeolian alluvial other, specify 	amed landforms) 048) <u>2,993</u> me 24. Soil Depth primarily slag, also residual none	5LK892 sits on the north terrace above Californ eters 22. Aspect SE Unknown cm alluvial soils and gravels. Colluvial moraine	nia Gulch
20. Describe on-site topography (mention na 21. Site Elevation 9,820 feet = (x .30 23. Degree of slope on site 0-20% 25. Soil description (character and color) 26. Depositional environment aeolian alluvial 5 alluvial 5 0 ther, specify 27. Nearest water: name/nature Califor	amed landforms) 048) <u>2,993</u> me 24. Soil Depth primarily slag, also residual none prinia Gulch / perman	5LK892 sits on the north terrace above Californ eters 22. Aspect SE Unknown cm alluvial soils and gravels. Colluvial moraine	nia Gulch
20. Describe on-site topography (mention na 21. Site Elevation <u>9,820</u> feet = $(x . 30)$ 23. Degree of slope on site <u>0-20%</u> 25. Soil description (character and color) 26. Depositional environment aeolian [alluvial] other, specify 27. Nearest water: name/nature <u>Califor</u> distance <u>350</u> m <u>1148</u>	amed landforms)	5LK892 sits on the north terrace above Californ eters 22. Aspect SE Unknown cm alluvial soils and gravels. Colluvial moraine	nia Gulch
20. Describe on-site topography (mention na 21. Site Elevation	amed landforms) 048) <u>2,993</u> me 24. Soil Depth primarily slag, also residual none prnia Gulch / perman ft. same	5LK892 sits on the north terrace above Californ eters 22. Aspect	nia Gulch
 20. Describe on-site topography (mention na 21. Site Elevation <u>9,820</u> feet = (x .30) 23. Degree of slope on site <u>0-20%</u> 25. Soil description (character and color) 26. Depositional environment aeolian alluvial other, specify 27. Nearest water: name/nature <u>Califor</u> distance <u>350</u> m <u>1148</u> 28. Nearest permanent water: name <u>s</u> 29. Vegetation on site (list predominant specified) 	amed landforms) 248) <u>2,993</u> me 24. Soil Depth primarily slag, also residual residual ft. same cies) sparse grass	5LK892 sits on the north terrace above Californ eters 22. Aspect SE Unknown cm alluvial soils and gravels. colluvial moraine distance m es and forbs in portions of the smelter features; to	he slag

Ter	te Site # mporary #	5LK892		Mana	agement D (page 3	ata Form of 4)		
IV.	. Nationa	l Historic Elig	gibility Assessme	ent				
31.	Colorad	o Historical So	ciety context (R)	P3) theme(s)	ind	ustrial/mir	ning	
	Specify	lead, zinc	c, silver, gold mi	ning (1880-194	5)			
32.	Applical	ole National Re	egister Criteria					
		Does not mee	t any of the below	w National Regi	ster criteria	a		
	🖾 A.	associated wit	th events that hav	e made a signifi	icant contr	ibution to t	he broad pattern of our history.	
	□ B. ⊠ C.	associated wit embodies the master, or that components n	th the lives of per distinctive charac t possess high art nay lack individu	sons significant cteristics of a typ istic values, or t al distinction	in our pas pe, period, hat represe	t. or method ent a signif	of construction, or that represent the wor icant and distinguishable entity whose	k of a
	🗆 D.	has yielded, o	or may be likely to	o yield, informa	tion impor	tant in hist	ory or prehistory	
		Qualifies und	er exceptions A t	hrough G (see N	/Ianual)			
	Level of S	Significance	National 🛛	State		Local		
33.	Conditio	n						
	\boxtimes	Good				T Light	disturbance	
34.	Describe	Pair Deteriorated Ruins e condition	The site is in ger	nerally poor co	ndition; v	☐ Eight ☐ Mode: ☐ Heavy ☐ Total irtually al	rate disturbance / disturbance disturbance l of the machinery and equipment has l	een
34.	Describe	Car Deteriorated Ruins condition emoved from	The site is in ger the site. Several	nerally poor co l smaller buildi	ndition; v ngs and st	Digit Mode Mode Total Total	rate disturbance / disturbance disturbance l of the machinery and equipment has l emain standing while many large featu	res
34.	Describe been r have c	air Deteriorated Ruins condition emoved from ollapsed and/o	The site is in ger the site. Several or been removed	nerally poor co l smaller buildi l.	ndition; v ngs and st	Mode: Heavy Total irtually al	rate disturbance / disturbance disturbance l of the machinery and equipment has l emain standing while many large featu	res
34. 35.	Describe been r have c	air Deteriorated Ruins e condition emoved from ollapsed and/o andalized? yes	The site is in ger the site. Several or been removed	nerally poor con l smaller buildi l. describeU	ndition; v ngs and st nknown	☐ Eight ☐ Mode: ☐ Heavy ☐ Total firtually al	rate disturbance / disturbance disturbance l of the machinery and equipment has l emain standing while many large featu	res
34. 35.	Describe been r have c Is site va	Condition	The site is in ger the site. Several or been removed	nerally poor con l smaller buildi l. describeU	ndition; v ngs and st (nknown	☐ Eight ☐ Mode: ☐ Heavy ☐ Total irtually al	rate disturbance / disturbance disturbance l of the machinery and equipment has l emain standing while many large featu	res
34. 35. 36.	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	air Deteriorated Ruins e condition emoved from ollapsed and/o andalized? yes	The site is in ger the site. Several or been removed is no dation:	nerally poor con l smaller buildi l. describe	ndition; v ngs and st Inknown	☐ Eight ☐ Mode: ☐ Heavy ☐ Total irtually al	rate disturbance / disturbance disturbance I of the machinery and equipment has I emain standing while many large featu	res
34. 35. 36.	Describe been r have c Is site va Eligibili Eligible	Tair Deteriorated Ruins e condition emoved from ollapsed and/o undalized? yes	The site is in ger the site. Several or been removed or no dation: Not Eligible no ker	nerally poor con l smaller buildi l. describe U Need 1	ndition; v ngs and st Inknown Data Data	is racomm	ended as individually eligible for nomina	res
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34. 35. 36.	Describe been r have c Is site va Eligibili Eligible Statemen the NR AV Sn develo Mount the tec	air Deteriorated Ruins e condition emoved from ollapsed and/o indalized? yes ty Recommend Market of Significant HP under crite nelter was the r poment and grow ain region (Cri hnologies and	The site is in ger the site. Several or been removed is no dation: Not Eligible nce/N.R.H.P. Jus eria A and C, and most significant a wth of Asarco, th iterion A). While	nerally poor con I smaller buildi I. describe U Need I stification Sit as a contributin and prominent sr the community of the site lacks su when the site wa	ndition; v ngs and st Inknown Data g element melter in the f Leadville ufficient in as in opera	is recomm to the Leadville , and the m tegrity of p	ended as individually eligible for nomina disturce district, and played an important role in ining and smelting industry in the Rocky obysical remains to convey most of the de ope and scale of the remaining features do	tion to The tails opes
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34. 35. 36.	Describe been r have c Is site va Eligibili Eligibile Statemen the NR AV Sn develo Mount the tec convey Distric	air Deteriorated Ruins e condition emoved from ollapsed and/o andalized? yes ty Recommend Market of Significant HP under crite nelter was the r poment and grow ain region (Cri hnologies and o the magnitude t contains com	The site is in ger the site. Several or been removed is no dation: Not Eligible nce/N.R.H.P. Jus eria A and C, and most significant a wth of Asarco, th iterion A). While systems utilized y e of the industria	nerally poor con I smaller buildi I. describe U Need I stification Sit as a contributin and prominent sr the community of the site lacks su when the site wa I process. In ado sufficient to por	ndition; v ngs and st (nknown) Data g element melter in the f Leadville ufficient in as in operation, no of tray the co	is recomm to the Lead ne Leadville and the m tegrity of p tion, the sc other know	ended as individually eligible for nomina disturbance l of the machinery and equipment has l emain standing while many large featu ended as individually eligible for nomina dville Historic Mining District (5LK856). e district, and played an important role in ining and smelting industry in the Rocky obysical remains to convey most of the de ope and scale of the remaining features do n smelter site in the Leadville Historic M f the smelting process. The AV site is the option of the destination of the des	tion to The tails o best
34. 35. 36.	Describe been r have c Is site va Eligibili Eligible Stateme the NR AV Sn develo Mount the tec convey Distric remain	air Deteriorated Ruins e condition emoved from ollapsed and/o andalized? yes ty Recommend int of Significant HP under crite nelter was the r poment and grow ain region (Cri hnologies and of the magnitude t contains com ing example o	The site is in ger the site. Several or been removed is no dation: Not Eligible dation: Not Eligible dation: nce/N.R.H.P. Justice eria A and C, and most significant a with of Asarco, the iterion A). While systems utilized of e of the industria aparable remains of the smelting ind	herally poor con I smaller buildi I. describe U Need I stification Siti as a contributin and prominent sr the site lacks su when the site was l process. In ado sufficient to por dustry that playe	ndition; v ngs and st (nknown Data Data g element melter in the f Leadville ufficient in as in operated dition, no of tray the co	is recomm to the Leadville, and the m tegrity of p tion, the sc other know	ended as individually eligible for nomina disturbance disturbance I of the machinery and equipment has l emain standing while many large featu ended as individually eligible for nomina dville Historic Mining District (5LK856). e district, and played an important role in ining and smelting industry in the Rocky ohysical remains to convey most of the de ope and scale of the remaining features d n smelter site in the Leadville Historic M f the smelting process. The AV site is the f the Leadville district (Criterion C).	tion to The tails opes ning best
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ι	State	e Site # 5LK892 Management Data Form (page 4 of 4)
	MA 39.	NAGEMENT AND ADMINISTRATIVE DATA Threats to Resource: Water erosion wind erosion animal activity neglect vandalism recreation
		construction is other (specify) remedial actions
	40.	Comments:
	41.	Local landmark designation NA 42. Easement
	43.	Management Recommendations 5LK892 has been adequately recorded, photographed and mapped; extensive
		historical research and documentation has been previously conducted and/or published for the site. No further work
		should be performed to determine the effect on those characteristics for which the site is considered eligible and
		contributing.
	VI	
	v1. 44	Previous Actions Accomplished at the site
		a. Excavations: test partial Complete Date(s):
		b. Stabilization: Date(s)
		c. HABS/HAER Documentation: Date(s) & Numbers
		d. Other
	45.	Known collections/reports/interviews and other references (list) Jacobs Engineering "Historic Mineral Processing
		Operations of the Leadville Mining District" (1991); 1883, 1886, 1889, 1895 & 1937 Sanborn Insurance Maps;
		"Leadville: Colorado's Magic City" (Blair: 1980); "Ores to Metals, the Rocky Mountain Smelting Industry",
		(Fell: 1979)
	46.	Primary Location of Additional Data Lake County Public Library; Norlin Library, CU Boulder
	47.	State or Federal Permit Number Collection Authorized: yes no
		Artifact Collection: yes no Method: Diagnostics grab sample random sample transect
		Other (specify)
		Artifact Repository NA
	48.	Photograph Nos. AV95-1, AV95-2, AV95-3, AV95-4 negatives filed at Foothill Engineering Consultants, Inc.
		AV95-5, AV95-6
	49.	Report Title Cultural Resources Investigations at Selected Smelter Sites, Operable Unit 5, California Gulch
		Superfund Site, Lake County, Colorado
	50.	Recorder(s) David Killam, Ted Hoefer III Date(s) 9/21-22/95
	51.	AffiliationFoothill Engineering Consultants, Inc.Phone Number(303) 278-0622

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

- 1. State Site Number
 5LK892
 2. Temporary Number
- 3. Map ID Number / Feature Number or Code: Feature 1c

4. Building or Structure Name: Mechanics Shop/Boiler House on 1937 Sanborn

- 5. Complex / Site Name: AV Smelter
- 6. Photo #: AV95-5, exp 14-18

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ARCHITECTURAL DESCRIPTION

- 7. Complex / Building / Structure Type: Utility building
- 8. Architectural Style: vernacular
- 9. Building Support System: brick
- 10. Dimensions: L: 225' W: 60' = Square Feet: 13,500
- 11. Number of Stories: Two on west end, one on eastern 2/3rds
- 12. Building Plan (Footprint, shape): rectangular

13. Landscaping or Special Setting Features: Industrial smelter complex.

14. Associated Buildings, Features, or Objects - Describe material and function (map number / name):

For the following categories include materials, techniques and styles in the description as appropriate:

15. Roof: Side gable, covered with tin, fiberglass, asphalt roofing.

16. Walls: Brick, except east end, which is galvanized metal over brick. North wall is sagging and beginning to collapse.

17. Foundation/Basement: None

18. Chimney(s): One metal chimney on north roof above auto shop.

19. Windows:

Glass brick in upper level.

20. Doors:

Several garage doors (5) on south side, sliding iron/wood door just west of garages. Two arched wide doors on east end of south side.

21. Porches:

None

22. General Architectural Description:

Five garages on east end, plus two inaccessible rooms. At least two rooms on west end, one on far west completely destroyed. Far western garage is an auto shop with one bay. Rest of structure is inaccessible.

FUNCTION

- 23. Current Use: Storage
- 24. Original Use: Mechanics shop boiler house in 1937.
- 25. Intermediate Use(s):

ARCHITECTURAL HISTORY

- 26. Architect:
- 27. Builder:
 28. Date of Construction Unknown

 Actual:
 Estimate:

 29. MODIFICATIONS: Minor Moderate Major Moved Date:

 Boscribe Modifications and Date:
 Collapsed.

 Additions and Date:

Tei	mporary # (Page 3 of 3)
30.	NATIONAL REGISTER CRITERIA/NATIONAL REGISTER ELIGIBILITY
	Does not meet any of the below National Register criteria
	A. Associated with events that have made a significant contribution to the broad pattern of history.
	□ B. Associated with the lives of persons significant in our past.
	C. Embodies the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or that possess high artistic values, or that repressignificant and distinguishable entity whose components may lack individual distinction
	D. Has yielded, or may be likely to yield, information important in history or prehistory.
	Qualifies under exceptions A through G (see Manual).
	Level of Significance: 🗌 National 🗌 State 🔤 Local
31.	Justify Assessment: See Management Data Form.
32.	Associated Contexts and Historical Information:
32.	Associated Contexts and Historical Information:
32.	Associated Contexts and Historical Information:
32.	Associated Contexts and Historical Information:
32.	Associated Contexts and Historical Information:
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32. 33. Spo 34.	Associated Contexts and Historical Information:
32. 33. Spo 34.	Associated Contexts and Historical Information:
32. 33. Spo 34.	Associated Contexts and Historical Information:
32. 33. Spo 34.	Associated Contexts and Historical Information:

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

1. State Site Number 5LK892 2. Temporary Number

3. Map ID Number / Feature Number or Code: Feature 12

4. Building or Structure Name: Residence 1. Not labeled. 1937 Sanborn.

- 5. Complex / Site Name: Arkansas Valley Smelter
- 6. Photo #: AV95-4, exp 1-4

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ARCHITECTURAL DESCRIPTION

- 7. Complex / Building / Structure Type: House residence
- 8. Architectural Style: Vernacular

9. Building Support System: Wood frame

- 10. Dimensions: L: 75' W: 40' = Square Feet: 3,000
- 11. Number of Stories: $1\frac{1}{2}$ main story with attic
- 12. Building Plan (Footprint, shape): rectangular

13. Landscaping or Special Setting Features: Residence associated with the Arkansas Smelter; industrial landscape.

14.Associated Buildings, Features, or Objects - Describe material and function (map number / name): A small garage of the same style is just off northwest corner. A series of sidewalks, brick piles and small foundations are located immediately to the west of Aspen grove. An abandoned, wood framed well is in this area. May have been the location of other houses.

For the following categories include materials, techniques and styles in the description as appropriate:

15. Roof: Side-gabled with asphalt shingles.

16. Walls: Wooden siding, yellowish-tan paint.

17. Foundation/Basement: Brick foundation.

18. Chimney(s): Sheet metal chimneys on front southwest corner and back porch.

State Site #	5LK892
Temporary #	

Historical Architectural Building/Structure Form (Page 2 of 3)

19. Windows:

Single pane glass windows on south, east, west.

20. Doors:

Front door on southeast corner, back door on porch.

21. Porches:

2 - on front southeast corner and the back porch on the north. Back porch is covered.

22. General Architectural Description:

Single story wood frame house with attic and covered back porch. Small garage with door on south, window on west wall. Garage has shake roof, asphalt shingles on house. Interior is inaccessible. The house is serviced by gas and electric. Curb and gutter to south of house.

FUNCTION

23. Current Use:	Being remodeled at the time of site recording. Apparently being used as an
	office.

24. Original Use: House

25. Intermediate Use(s): Unknown

ARCHITECTURAL HISTORY

26. Architect:	Unknown					
27. Builder:						
28. Date of Co Actual: Estimate:	onstruction		Assessor: based on:			
29. MODIFIC Describe N	ATIONS: Modifications	Minor 🗌 and Date:	Moderate [Unknown] Major []	Moved 🗌	Date:
Additions and Back po	Date: rch appears	to be an add	-on.		L	

State Site # 5LK892		Historical Archite (Page 3 c	ctural Building/Structure Form
	······	(ruge s c	(, ,)
30. NATIONAL REGISTER C	RITERIA/NATION	NAL REGISTER	ELIGIBILITY
\square Does not meet any of the	below National Reg	ister criteria	
A. Associated with even history.	its that have made a	significant contril	oution to the broad pattern of o
□ B. Associated with the li	ives of persons signi	ficant in our past.	
C. Embodies the distinc represent the work of significant and disting	tive characteristics of of a master, or tha guishable entity who	of a type, period, of t possess high art ose components ma	or method of construction, or t tistic values, or that represen ay lack individual distinction.
\Box D. Has yielded, or may b	be likely to yield, int	formation importar	nt in history or prehistory.
Qualifies under exception	is A through G (see	Manual).	I
Level of Significance:] National	State	
31. Justify Assessment:			
32. Associated Contexts and Hist employees, probably owne	torical Information: d by AV Smelter.	Probably a re	sidence used by AV Smelter
32. Associated Contexts and Hist employees, probably owne	torical Information: d by AV Smelter.	Probably a re	sidence used by AV Smelter
32. Associated Contexts and Hist employees, probably owne	torical Information: d by AV Smelter.	Probably a re	sidence used by AV Smelter
 32. Associated Contexts and Hist employees, probably owne 33. Other Recording Information 	torical Information: d by AV Smelter.	Probably a re	sidence used by AV Smelter
 32. Associated Contexts and Hist employees, probably owne 33. Other Recording Information Specific References to the Structure 	torical Information: d by AV Smelter. : : ure/Building:	Probably a re	sidence used by AV Smelter (use continuation shee
 32. Associated Contexts and Hist employees, probably owne 33. Other Recording Information Specific References to the Structure 	torical Information: d by AV Smelter. : : ure/Building:	Probably a re	sidence used by AV Smelter (use continuation shee
 32. Associated Contexts and Hist employees, probably owne 33. Other Recording Information Specific References to the Structure 34. Archaeological Potential: 	torical Information: d by AV Smelter. : : ure/Building: yes 🛛 no	Probably a res	sidence used by AV Smelter (use continuation shee
 32. Associated Contexts and Hist employees, probably owne 33. Other Recording Information Specific References to the Structure 34. Archaeological Potential: 	torical Information: d by AV Smelter. : : ure/Building: yes 🛛 no	Probably a re-	sidence used by AV Smelter (use continuation shee

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

1. State Site Number5LK8922. Temporary Number

3. Map ID Number / Feature Number or Code: Feature 13

4. Building or Structure Name: Carpenter Shop. 1937 Sanborn

- 5. Complex / Site Name: AV Smelter
- 6. Photo #: AV95-5, exp 1-4

ARCHITECTURAL DESCRIPTION

- 7. Complex / Building / Structure Type: Shop/Garage
- 8. Architectural Style: Vernacular

9. Building Support System: Wood frame

10. Dimensions: L: 75' W: 45'

11. Number of Stories: Two

12. Building Plan (Footprint, shape): Rectangular

13. Landscaping or Special Setting Features: Industrial Smelter complex

14.Associated Buildings, Features, or Objects - Describe material and function (map number / name): Industrial trash is scattered all around the building.

= Square Feet: 3,375

For the following categories include materials, techniques and styles in the description as appropriate:

15. Roof: Offset side gable; offset is to the north.

16. Walls: Vertical wood planks.

17. Foundation/Basement: wood plank and brick.

18. Chimney(s): None

State Site #	5LK892
Temporary #	

Historical Architectural	Building/Structure	Form
(Page 2 of 3)		

19. Windows:

West - 3 upper windows, 5 lower

North - 5 windows South - 7 upper windows, 3 lower East - 4 windows

20. Doors:

Single door - south side east wall, garage door on south side, single door and garage door on west side. Single door on north wall, east corner.

21. Porches:

None

22. General Architectural Description:

Wood frame building built in gentle hill slope. South wall is higher than north wall. One story on north side. Two stories on south side. No access to interior.

FUNCTION

23.	Current	Use:	Storage.
			C7

24. Original Use: Carpenter shop.

25. Intermediate Use(s):

ARCHITECTURAL HISTORY

26.	Architect:							
27.	Builder:							
28.	Date of Construction							
	Actual:		Assessor:					
	Estimate:		based on:					
29.	MODIFICATIONS:	Minor 🗌	Moderate		Major 🗌	Moved 🗌	Date:	
	Describe Modifications	and Date:						
	Windows have been co	overed with	fiberglass.	Door	s are boarde	d up.		
Ad	ditions and Date:							

State Site	# <u>5LK892</u>		Historical Architec	tural Building/Structur
Temporar	y #		(Page 3 of	3)
30. NATI	ONAL REGISTER C	RITERIA/NATI	ONAL REGISTER I	ELIGIBILITY
D	oes not meet any of the	below National F	Register criteria	
□ A	. Associated with even history.	nts that have made	e a significant contrib	ution to the broad patte
🗖 B.	Associated with the	lives of persons si	gnificant in our past.	
□ C.	Embodies the disting represent the work significant and distin	ctive characteristic of a master, or t guishable entity v	cs of a type, period, or that possess high arti vhose components may	method of construction stic values, or that re- lack individual distin
D	. Has yielded, or may	be likely to yield,	information important	in history or prehistor
Q	ualifies under exception	ns A through G (s	ee Manual).	
Level	of Significance:	☐ National	□ State	Local
31. Justify	y Assessment:			
32. Assoc	iated Contexts and His	torical Informatio	n:	
32. Assoc	iated Contexts and His	torical Informatio	n:	
32. Assoc	iated Contexts and His	torical Informatio	n:	
32. Assoc	iated Contexts and His	torical Informatio	n:	
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32. Assoc	iated Contexts and His Recording Information	torical Informatio	n:	(use continuati
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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

1. State Site Number 5LK892 2. Temporary Number
3. Map ID Number / Feature Number or Code: Feature 14
4. Building or Structure Name: Pumphouse
5. Complex / Site Name: AV Smelter
6. Photo #: V95-5, exp 9-13
ARCHITECTURAL DESCRIPTION 7. Complex / Building / Structure Type: Shop
8. Architectural Style: Vernacular
9. Building Support System: Brick
10. Dimensions: L: 60' W: 35' = Square Feet: 2,100
11. Number of Stories: 1
12. Building Plan (Footprint, shape): Rectangular
13. Landscaping or Special Setting Features: Industrial smelter complex

14. Associated Buildings, Features, or Objects - Describe material and function (map number / name):

For the following categories include materials, techniques and styles in the description as appropriate:

15. Roof: Side gable, sheet metal roof supported by steel beams.

16. Walls: Brick

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17. Foundation/Basement: Brick

18. Chimney(s): None

.

State Site #	5LK892
Temporary #	

19. Windows:

North - 2, glass brick

20. Doors:

North - single door, west end. East - single door, north end.

21. Porches:

None, but loading dock on west end.

22. General Architectural Description:

Single story, red brick building with glass brick windows. Single doors only, no garage doors. Bricks are deteriorated on north and south sides. Pump meters on east end.

FUNCTION

25. Current 050. Onknown. Tto access to interior	23.	Current	Use:	Unknown.	No acces	s to interior
--------------------------------------------------	-----	---------	------	----------	----------	---------------

24. Original Use: Pump house or shipping/receiving.

25. Intermediate Use(s): Unknown

ARCHITECTURAL HISTORY

26.	Architect:					
27.	Builder:					
28.	Date of Construction	Unknown	Assessor:			
	Estimate:		based on:			
29.	MODIFICATIONS: Describe Modifications	Minor 🗌 and Date:	Moderate Roof appears to	Major 🔲 be relatively	Moved 🗌	Date: od has been
	placed under the gab	le on the wes	t end.			
Ad	ditions and Date:					

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broad pattern
construction or that reputed dual distinct
r prehistory.
ocal
continuation

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

- 1. State Site Number 5LK892 2. Temporary Number
- 3. Map ID Number / Feature Number or Code: Feature 15

4. Building or Structure Name: Utility Building 1 - Matte Hoist House 1937, Sanborn

- 5. Complex / Site Name: AV Smelter
- 6. Photo #: AV95-5, exp 6-8

ARCHITECTURAL DESCRIPTION

- 7. Complex / Building / Structure Type: Industrial/utility
- 8. Architectural Style: Vernacular
- 9. Building Support System: Brick
- 10. Dimensions: L: 25' W: 25'
- 11. Number of Stories: 1
- 12. Building Plan (Footprint, shape): Square
- 13. Landscaping or Special Setting Features: Industrial Smelter complex
- 14.Associated Buildings, Features, or Objects Describe material and function (map number / name): Located immediately to the southeast of the AV furnace, F. 1a.

= Square Feet: 625

For the following categories include materials, techniques and styles in the description as appropriate:

- 15. Roof: Single gable dip to the west. Wood plank roof.
- 16. Walls: Brick

17. Foundation/Basement: Brick

18. Chimney(s): None

State Site # 5LK892 Temporary #	Historical Architectural Building/Structure Form (Page 2 of 3)
19. Windows: None	
20. Doors: Single double-wide door on the n	orth side
21. Porches: None	
22. General Architectural Description: Square brick building approxima Painted silver.	ately 30 ft. tall. Wood plank floor. Function unknown.
FUNCTION 23. Current Use: Storage	
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown	
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown	
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown ARCHITECTURAL HISTORY	
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown ARCHITECTURAL HISTORY 26. Architect: 27. Builder: 27. Builder:	
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown ARCHITECTURAL HISTORY 26. Architect: 27. Builder: 27. Builder:	
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown ARCHITECTURAL HISTORY 26. Architect: 27. Builder: 28. Date of Construction Actual: Estimate:	Assessor:
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown ARCHITECTURAL HISTORY 26. Architect: 27. Builder: 28. Date of Construction Actual: Estimate: 29. MODIFICATIONS: Minor □ Describe Modifications and Date:	Assessor: based on: Moderate Major Moved Date:
FUNCTION 23. Current Use: Storage 24. Original Use: Unknown 25. Intermediate Use(s): Unknown ARCHITECTURAL HISTORY 26. Architect: 27. Builder: 28. Date of Construction Actual: Estimate: 29. MODIFICATIONS: Minor □ Describe Modifications and Date:	Assessor:

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	#		(Page 3 of	3)
30. NATI	ONAL REGISTER (CRITERIA/NAT	ONAL REGISTER E	LIGIBILITY
🛛 Do	es not meet any of th	e below National I	Register criteria	
□ A.	Associated with even history.	ents that have mad	e a significant contribu	ition to the broad pattern o
□ B.	Associated with the	lives of persons si	gnificant in our past.	
□ C.	Embodies the distin represent the work significant and disti	of a master, or nguishable entity	cs of a type, period, or that possess high artis whose components may	method of construction, or stic values, or that represe lack individual distinction
D.	Has yielded, or may	be likely to yield,	information important	in history or prehistory.
🗌 Qu	alifies under exception	ons A through G (s	ee Manual).	
Level	of Significance:	National	□ State	□Local
31. Justify	Assessment:			
	Pecording Informatio			(use continuation sh
55. Ouler	According informatio			
Specific R	eferences to the Struc	ture/Building:		
		🗆 yes 🖂	no Justify:	
34. Archa	eological Potential:			
34. Archa	eological Potential:			

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

1. State Site Number5LK8922. Temporary Number

3. Map ID Number / Feature Number or Code: Feature 16

4. Building or Structure Name: Utility Building 2, labeled "Oils" in 1937 Sanborn

- 5. Complex / Site Name: AV Smelter
- 6. Photo #: AV95-6, exp 9-12

ARCHITECTURAL DESCRIPTION

- 7. Complex / Building / Structure Type: Utility
- 8. Architectural Style: Vernacular
- 9. Building Support System: Brick
- 10. Dimensions: L: 50' W: 25' = Square Feet: 1,250
- 11. Number of Stories: 1

.

- 12. Building Plan (Footprint, shape): Rectangular
- 13. Landscaping or Special Setting Features: Industrial smelter complex.

14.Associated Buildings, Features, or Objects - Describe material and function (map number / name): Located in vicinity of 1895 ponds.

For the following categories include materials, techniques and styles in the description as appropriate:

15. Roof: Side gable sheet metal.

16. Walls: Brick, painted silver.

17. Foundation/Basement: Brick, no basement.

18. Chimney(s): Stovepipe on north end, west roof

State Site #	5LK892	
Temporary #		

19. Windows:

North - arched, wood case window

East - Large window on north end, arched; 4 small windows on south end under eves

South - One in upper center

West - Large window on north end, arched; 3 small windows on south end under eves

20. Doors:

Single door with arch on west end

21. Porches:

None

22. General Architectural Description: 2 room structure. North room occupies northern third, door on west side of interior brick wall leads into southern room (inaccessible). Single story, painted silver. Arches over north door (only entrance) and main windows.

FUNCTION

23.	Current	Use:	Storage
		~ ~ ~ .	

24. Original Use: Unknown

25. Intermediate Use(s):

ARCHITECTURAL HISTORY

- 26. Architect:
- 27. Builder:

28.	Date of Construction	Unknown					
	Actual: Estimate:		Assessor: based on:				
29.	MODIFICATIONS: Describe Modifications	Minor and Date:	Moderate [None appare	☐ Major [] ent	Moved 🗌	Date:	
Ad	ditions and Date: None						

State Site # 5LK892 Temporary #	Historical Architectural (Page 3 of 3)	Building/Structure Form
30. NATIONAL REGISTER CR	TERIA/NATIONAL REGISTER ELIG	GIBILITY
\square Does not meet any of the be	low National Register criteria	
A. Associated with events history.	that have made a significant contribution	to the broad pattern of our
□ B. Associated with the live	s of persons significant in our past.	
C. Embodies the distinctive represent the work of significant and distingu	e characteristics of a type, period, or met a master, or that possess high artistic shable entity whose components may lack	thod of construction, or that values, or that represent a k individual distinction.
D. Has yielded, or may be	ikely to yield, information important in h	istory or prehistory.
Qualifies under exceptions	A through G (see Manual).	
Level of Significance:	National State	
31. Justify Assessment:		
32. Associated Contexts and Histor	cal Information:	
		(use continuation sheets)
33. Other Recording Information:		
Specific References to the Structure	/Building:	
24 Archaeological Potential:	□ ves ⊠ no Justify:	
	yes Ho	
35 Recorder(s) D. Killam, T. H	oefer Date(s	(i): 9-22-95

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

1. State Site Number5LK8922. Temporary Number

3. Map ID Number / Feature Number or Code: Feature 17

4. Building or Structure Name: Office Building 2 - Vicinity of "office" but not exact location or plan as 1937 Sanborn

= Square Feet: 5,500

5. Complex / Site Name: AV Smelter

6. Photo #: AV95-5, exp 19-25

ARCHITECTURAL DESCRIPTION

7. Complex / Building / Structure Type: Office building

8. Architectural Style: Vernacular

9. Building Support System: Concrete and cinder block

10. Dimensions: L: 110' W: 50'

11. Number of Stories: 1, with basement

12. Building Plan (Footprint, shape): Rectangular

13. Landscaping or Special Setting Features: Industrial smelter complex

14.Associated Buildings, Features, or Objects - Describe material and function (map number / name): Located to east and across the road from the Mechanics Shop.

For the following categories include materials, techniques and styles in the description as appropriate:

15. Roof: Flat, tar paper and asphalt

16. Walls: Cinder block. Rounded cinder block columns protrude slightly from the walls between the windows.

17. Foundation/Basement: Concrete. Basement is present, but inaccessible.

18. Chimney(s): 6 metal chimneys/vents on roof.

State Site #	5LK892
Femporary #	

19. Windows:

South - 7 single pane under glass brick

North - 8 single pane under glass brick

East - 3 glass brick in basement

Glass brick on north south ends. Single pane under glass brick flank the door. All windows are steel framed.

20. Doors:

South - single door on west and east ends. West - single door in middle of wall

21. Porches:

South - concrete porches by doors.

West - concrete porches by doors; steel shades over entrance ways.

22. General Architectural Description:

Cinder block and concrete building, flat roof (Industrial Art Deco). Building is electrified. Building is in good shape - interior is not accessible; heating equipment on northeast corner.

FUNCTION

23. Current Use: Sto	rage
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- 24. Original Use: Office
- 25. Intermediate Use(s):

ARCHITECTURAL HISTORY

- 26. Architect:
- 27. Builder:

28.	Date of Construction	Unknown					
	Actual:		Assessor:				
	Estimate:		based on:				
29.	MODIFICATIONS:	Minor	Moderate	Major 🔲	Moved	Date:	
	Describe Modification	s and Date:	None apparent.				
	10.						
Add	ditions and Date:						
	None						

State Site Temporar	# <u>5LK892</u> y #	(Page 3 of 3)
30. NAT	ONAL REGISTER CRITERIA/NA	TIONAL REGISTER ELIGIBILITY
D	oes not meet any of the below Nationa	l Register criteria
□ A	. Associated with events that have maintain history.	ade a significant contribution to the broad pattern
В	Associated with the lives of persons	significant in our past.
⊠ C	Embodies the distinctive characterist represent the work of a master, o significant and distinguishable entity	stics of a type, period, or method of construction, or r that possess high artistic values, or that repre- y whose components may lack individual distinction
D	. Has yielded, or may be likely to yield	d, information important in history or prehistory.
Q	ualifies under exceptions A through G	(see Manual).
Level	of Significance: 🗌 National	□ State □Local
32. Assoc	iated Contexts and Historical Information	ion:
32. Assoc	iated Contexts and Historical Information	ion:
32. Assoc	iated Contexts and Historical Informat	ion:
32. Assoc	iated Contexts and Historical Informat	ion:
32. Assoc	iated Contexts and Historical Informat	ion:

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Use this form in conjunction with the Management Data Form. One of these forms should be completed for each standing historical building or structure. Include a photograph, sketch, map, and a photocopy of the quadrangle map showing building location.

1. State Site Number 5LK892 2. Temporary Number
3. Map ID Number / Feature Number or Code: Feature 18
4. Building or Structure Name: Office Building 2; "Office" on 1937 Sanborn
5. Complex / Site Name: AV Smelter
6. Photo #: AV95-6, exp 6-8
ARCHITECTURAL DESCRIPTION
7. Complex / Building / Structure Type: Office
8. Architectural Style: Vernacular
9. Building Support System: Brick
10. Dimensions: L: $35'$ W: $25'$ = Square Feet: 875
11. Number of Stories: 1
12. Building Plan (Footprint, shape): Rectangular
13. Landscaping or Special Setting Features: Industrial Smelter complex
14. Associated Buildings, Features, or Objects - Describe material and function (map number / name):
Located immediately to the west of Dietrich's shop and to the south of the furnace.
For the following categories include materials, techniques and styles in the description as appropriate:
15. Roof: Side-gabled, covered with sheet metal.
16. Walls: brick, painted silver.
17 Foundation/Basement: concrete
18 Chimney(s): one, brick on south side of roof.

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State Site #	5LK892	
Cemporary #		

19. Windows:

North - 2 windows flank door, brick arch over windows, windows are wood framed;

South - 2 arched, framed windows

West - 2 arched, framed windows

20. Doors:

Single wooden door in middle of north wall. 3 doors leading to closets on east end.

21. Porches:

Concrete step in front of north door.

22. General Architectural Description:

Single story brick structure with metal roof. Building is painted silver. Building has two main rooms with three closets on east end.

Building is beginning to collapse.

FUNCTION

- 23. Current Use: Storage.
- 24. Original Use: Office (informants)
- 25. Intermediate Use(s):

ARCHITECTURAL HISTORY

- 26. Architect:
- 27. Builder:

28.	Date of Construction	Unknown					
	Actual:		Assessor:				
	Estimate:						
29.	MODIFICATIONS:	Minor 🗌	Moderate 🗌	Major 🗖	Moved 🗌	Date:	((4
	Describe Modifications	and Date:	North window	s are boarded	with plywood	1.	

Additions and Date:
State Site # 5LK892 Temporary #	Historical Archi (Page 3	tectural Building/Structure Form 3 of 3)
30. NATIONAL REGISTER CRITERIA	NATIONAL REGISTE	R ELIGIBILITY
Does not meet any of the below Nat	ional Register criteria	
A. Associated with events that hav history.	e made a significant cont	ribution to the broad pattern of
□ B. Associated with the lives of per-	sons significant in our pas	t.
C. Embodies the distinctive character represent the work of a master significant and distinguishable of	eteristics of a type, period er, or that possess high entity whose components	, or method of construction, or t artistic values, or that represen may lack individual distinction.
\square D. Has yielded, or may be likely to	yield, information import	tant in history or prehistory.
□ Qualifies under exceptions A throug	gh G (see Manual).	
Level of Significance:	al 🗍 State	Local
31 Justify Assessment:		
33. Other Recording Information:		(use continuation she
Specific References to the Structure/Buildin	ng:	
34. Archaeological Potential: 🗌 yes	⊠ no Justify: _	

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3.3 California Smelter

The California Smelter, also known as the Chicago Reduction Works, began operations in June 1879 (1 pp. 625-26). The works were situated on the following claims: Chicago Reductions Works Placer (Survey No. 930), Chicago Reduction Works Mill Site #1 (Survey No. 931) and Chicago Reduction Works Mill Site #2, (Survey No. 932) (20). According to the Leadville city directories, the proprietors of the works were A.J. Jaescke, G.W. Bittinger and, G.M. Garrish in 1879 (21 p. 18); however in 1881 M.E. Smith and Company was in control (22 p. 48).

from: Jacobs Engineeri 1991

The California Smelter operated from June of 1879 to late 1880. Operations, as described in Emmons under "Smelter D," were similar to many of those located on California Gulch, with several levels and two water-jacket blast furnaces connected to dust chambers. The flue dust collected in these chambers was not mixed with lime as it was at most smelters, but was simply moistened with water and thrown in the furnace one shovel full per smelting charge (1). The capacity of these works was 24 tons per day. Problems with furnace operation caused frequent stoppages during 1879 but repairs were undertaken and operations continued through 1880. The production data in Emmons (1) indicate that about 500 tons of bullion were produced by smelting 4,200 tons of ore, for the year ending June 1880. This production leads to an estimate of 5,000 tons of waste generated (see Table 2.2). Assuming that one half this volume of waste was also generated in the remaining six months of 1880, the total volume of waste generated by the California Smelter operation is estimated to be 7,500 tons.

3.4 Arkansas Valley Smelter

The longest operating smelter in the Leadville area was the Arkansas Valley Smelter situated on lower California Gulch west of the city limits on the Germainia Placer (Survey No. 389) (23). The plant was built by Anton Eilers and Gustave Billing in 1879 (20 p. 50A). Due to Eiler's association with the Germania Smelter near Salt Lake City, Utah, the smelter was often called the Utah Smelter. The plant began operations in May 1879 and after its first year ranked third in bullion production behind the Grant and La Plata smalters (7 p. 96). The plant was divided into several levels with the furnace level and slag heaps at the lowest level toward the base of the slope. The bullion at this smelter was stacked on slag heaps in front of the furnaces to await shipment. Figure 3.2 depicts the Arkansas Valley Plant as it appeared in the late 1870's. In 1880 the Billing and Eilers Smelter had three furnaces of equal dimensions which were regarded as the model furnaces and were described in great detail under "Smelter C" in Emmons (1 p. 676). The water-jacket blast furnace had the same general design as those at other smelters, however the minor differences were held to account for considerable improvement in working qualities. In particular they employed a unique tap system for removing bullion from the furnace, rather than ladling the liquid from the lead-well as at other smelters. The bullion was drawn periodically into cast iron lead-pots and kept molten until it could be ladled into molds. The bullion bars thus obtained were generally of a more uniform shape and composition than those made at other smelters.

The plant also had a unique ventilation system which, rather than being restricted to a hood and chimney in front of each furnace, extended along the entire front of the building and provided much better ventilation. A uniform treatment of slags was adopted with slag being left in siag pots until a crust about two inches thick was formed on the sides and surface. The upper crust was then pierced, the slag pot overturned on the bank slope, and the molten contents allowed to run down the slope (1 p. 678). The remaining thin shells of slag material were then broken up for resmelting as this portion of the slag was found by assay to be slightly higher in silver than the portion discarded.

The dust chambers at the works in 1880 were not the most efficient of their type, but did recover some of the fine dust which was then mixed with lime, molded into bricks and resmelted (1). The capacity of the works, with only two furnaces operating in mid 1880, was 80 to 100 tons per day. In winter of 1880, the Billing and Eilers Smelter enlarged by installing a third and fourth smelting unit, and monitoring their dust chamber and replaced the oil and gas illumination with electric lights.

from: Jacobs Engineering

In 1882 Eilers sold out to Billing and Eilers moved to Pueblo where he built the Eilers Plant (1 p. 100). Billing merged with the A.R. Meyer Milling and Sampling Company in April 1882 to form the Arkansas Valley Smelting Company (25 p. 71B).

In 1883 there were four furnaces in blast (26 p. 320) and by the end of 1883 a fifth furnace had been added. This plant (after the Grant fire) had become the largest smelting works in Leadville (27). By the year 1883, the production for Leadville mines had shifted to a greater proportion of sulfides. Technical problems connected with treatment of these ores were being encountered. One of the first adaptations to the increased sulfide production was the installation of roasting furnaces for pretreatment of ores, which reduced the sulfur and prepared them for blast furnace smelting. No information was available on the date of roasting furnace installation at the Arkansas Valley Smelter. However, in 1884 the plant treated more ore than any other smelter which indicates that sulfides were treated. Also, it is known that roasting furnaces were in place and operating by 1885 (28). Based on this information, it is likely that initial roasting furnaces were installed in 1884 or late 1883. The Last Chance and other mines in Park County sent ores to the smelter in July 1884 (29 p. 59).

By 1886 the seven furnaces in blast had the capacity to treat over 9,000 tons of ore per month (30 p. 299), and at the end of the year the plant had 15,000 tons of ore on hand for treatment (30 p. 388). The Arkansas Valley Smelting Company, which was incorporated in Missouri, filed Leadville as their principal place of business in January 1887 (31). During 1887, a further improvement was made in the lead fume condensation system when the company built a long tunnel connecting the furnaces with a stack erected on the hill some distance away. This system decreased the losses connected with escape of volatized metals in the furnace fume (30 p. 370). At this time, the Chrysolite Mine was sending two cars of ore per day to the smelter (32 p. 388), and by the close of the year the smelter was receiving ores from the Aspen District (33 p. 40).

In 1890 the Arkansas Valley Smelter was sold to the Kansas City Smelting and Refining Company, with A.R. Meyer as president (34 p. 239B). The Kansas City company also had works in El Paso, Texas and Argentine, Kansas (35 p. 110). Under this new management, the Arkansas plant was expanded and in the early 1890s additional roasters were installed, blast furnaces were enlarged, dust chambers were improved and older machinery was replaced. By 1892 the Arkansas Valley Smelter was operating five large capacity lead blast furnaces, six reverberatory furnaces, and two matte furnaces, with a capacity for treating 820 tons of ore daily (34 and 2). The plant yard had also been expanded and had 16 different tracks for moving ore and bullion. Ores from the A.Y. and Minnie Mine were sent to the plant on a regular basis in early 1883 and a new roasting plant for treatment of refractory ores was planned (36). Operations at the Arkansas Valley Smelter were the most consistent of all Leadville smelters, and though it was closed along with all the other plants during the silver panic of 1898 (37 p. 196), it was reopened January 16 of the next year and was the only lead smelter to resume regular operations (10). By March, the works were operating at capacity (38). Operations continued at or near capacity and in July of 1896 The Engineering and Mining Journal reported that the smelter was taking all the ore they could get (39 p. 36).

The smelter situation in 1897 was greatly affected by a marked decrease in lead production. The only lead blast smelter operating in Leadville in 1897 was the Arkansas Valley Plant, and even this plant was obliged to buy lead ores from the Coeur d'Alene district to supply the lead necessary for recovery of silver from the Leadville dry ores (10). In September 1898 the Kansas City Smelting and Refining Company secured the Union Smelter to roast ores prior to smelting them at the Arkansas Valley plant (40 p. 286). Operation continued despite shortages of lead ores and coke until 1899 when the plant was purchased by the newly formed American Smelting and Refining Company (ASARCO). The ASARCO agreement made March 7, 1899, included the Kansas City Company as part of the merger (41 p. 290).

from: Jacobs Engineering 1991

The Arkansas Valley Smelter, at the turn of the century, was the only surviving lead smelter. Operation continued until the final closure of the plant in 1961. The plant was rarely operated at capacity, but technological improvements continued to be made to keep the AV works competitive. Bag houses for the collection of dust and fume condensate were probably installed early in the century, and a new dust-flue one mile long was constructed in 1906.

In 1903, the plant purchased a pyritic furnace and though this operation never exceeded the production of the lead smelting works, this enabled the smelter to treat lower grade ores (42). In 1905, the Huntington-Heberline process, an improved lime roasting technique for treating sulfides, was adopted at the plant (43). By the next year the process was being used successfully in 24 hand reverberatory roasting furnaces (43). By 1915 many improvements had been made and 10 blast furnaces for smelting operated steadily throughout the year producing lead bullion and copper matte (13).

The production of the AV plant continued to decrease in response to decreased production from Leadville District mines. Except for a short period of closure during the depression of 1921, operations continued. In the twenties, through the thirties, forties and fifties, the plant continued working, but rarely with more than one furnace in blast (2). Much of their operation during this period was reworking old slag dumps of the Leadville district and reducing small quantities of ore mined in the Central Rockies (2). Figure 3.3 shows the plant as it appeared in the later years of operations.

According to an excerpt from a taped program on the history of Leadville (available at the Lake County Public Library), the molten slag from the smelter was discharged into cold water and solidified into a fine granulated material during the later years of operations at the AV plant. This process is known as "water-quenching." The size of the particles was greatly influenced by the temperature of the water in that colder water produced smaller particles. Up until this time, the molten slag was placed in large crucibles (or pots) and poured directly onto the slag heap where it was allowed to cool and solidify in the air. This slag is welded together and is referred to as "air-quenched" or "air-cooled."

Estimates of waste generated over the history of the plant would require a more detailed information review of production data for the smelter if it is available from ASARCO records. During a site reconnaissance visit in September 1988, the AV pile was observed to cover a large area approaching 100,000 square feet. The pile has nearly all been disturbed and is only a foot or two thick in some areas. In addition, some remains of the smelter structures are still standing at this location (see Figure 3.4).



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5LK892. View of Feature 1a, furnace building east exterior, looking west.



5LK892. View of Feature 1a, charge floor/ore house location, looking northeast.



5LK892. View of Feature 1a, furnace building interior.



5LK892. View of Feature 1b, power and blower house, looking west.



5LK892. View of Feature 1b, power and blower house, north end with switch room, looking northeast.



5LK892. View of Feature 1c, boiler house/mechanics shop, south end, east exterior, looking west.



5LK892. View of Feature 1c, boiler house/mechanics shop, north end, east exterior, looking north.



5LK892. View of Feature 1d, unidentified feature, south exterior, looking north.



5LK892. General view of Feature 2, baghouse, from south end looking north.



5LK892. View of Feature 2, exhaust pipes at the baghouse. View looking south.



5LK892. View of Feature 2, baghouse wall/flue remains, looking west.



5LK892. View of Feature 2, sheet metal remains of baghouse, looking west.



5LK892. View of Feature 3a, roaster furnace area, looking south.



5LK892. View of Feature 3b, unidentified structure, looking east.



5LK892. View of Feature 3c, mixer, looking south.



5LK892. View of Feature 4a, ore bin, looking west.



5LK892. Detail view of Feature 4a, south end of ore bin, looking north.



5LK892. View of Feature 4b, ore bin, looking west.



5LK892. Detail view of Feature 4b, ore bin, south end, looking west.



5LK892. Detail view of Feature 4b, ore bin, south end, looking north.



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5LK892. Detail view of Feature 4b, ore bin, west exterior wall, looking east.



5LK892. View of Feature 5, stack remains, looking east.



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5LK892. Detail view of Feature 5, stack remains, looking west.



 $5\mathrm{LK892}.$ View of Feature 5, stack base remains, looking east.



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5LK892. Detail view of Feature 5, settling house, looking south.



5LK892. View of Feature 6, No.2 Thaw House, looking south.



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5LK892. Detail view of Feature 6a, heating plant, looking south.



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5LK892. View of Feature 6, trenches, looking north.



5LK892. View of Feature 6b, stack base, looking south.



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5LK892. Detail view of Feature 6c, concrete foundation, looking south.



5LK892. View of Feature 6d, foundations, looking south.



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5LK892. View of Feature 7, concrete arch, north side, looking south.



5LK892. View of Feature 8, stack base, looking south.



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5LK892. View of Feature 9, loading platform, south end, looking east.



5LK892. View of Feature 10, trash scatter, looking east.



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5LK892. View of Feature 11, slag pile, looking west.



5LK892. View of Feature 12, residential structure, looking north.



5LK892. View of Feature 13, carpenter's shop, south exterior, looking north.



5LK892. View of Feature 14, pumphouse, south exterior, looking north.







5LK892. View of Feature 16, storage building, east exterior, looking west.



5LK892. View of Feature 17, office/lab, east exterior, looking west.



J. . .

5LK892. View of Feature 17, detail of northeast corner, showing construction details.



5LK892. View of Feature 18, office, east exterior, looking west.



2/26/04

Site_	xcoord	ycoord	
5LK.892	385961.0000	4343580.0000	
5LK.892	386179.0000	4343410.0000	
5LK.892	386007.0000	4343130.0000	
5LK.892	385655.0000	4343080.0000	
5LK.892	385285.0000	4343350.0000	
5LK.892	385520.0000	4343560.0000	
5LK.892	385882.0000	4343610.0000	

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Site Number 5 LK. 884

Please Note

Some of the items filed with this cultural resource record were not scanned. These items may include:

- Published and copyrighted materials including newspaper and magazine clippings
- · Bound material including brochures and pamphlets
- Microfiche
- Negatives
- Computer disks or CDs
- Documents
- Items over 17 x 11

These items are stored at the Office of Archaeology and Historic Preservation at the Colorado Historical Society.

STATE INVENT	ORY FORM	I-24	5LK. Gr
*	×+×11-23	SLK	886
		1) Site Number -	picture
2) SITE NAME	Matta School	Site Threatened	Management and an and a spectral
ADDRESS	Fride U.S. 24 just part junit	in Colo. 300	
	Lale		
		<u>T98</u> R 80W	5 33 5W 4 NW 4
3) OWNER			NE (NW/SW/NRI
4) CONDITION	excellentgoodfair_	ruins	_
building	s occupiedunoccupied		
5) PHYSICAL D	ESCRIPTION Building has 1	2 <u>3</u> s	tories
frame	logbrick_	other	
paintedred	I w while trim, sm. bell lowed,	indicate	e
		e e	

6) SIGNIFICANCE Be specific making certain to give date(s). your sources. If necessary continue on the back. List

13; 383838 mE 4342322 mN

1902, Diet. 11

<u>X. Patternan</u> Name <u>\$614 Yukon, 301 C</u> <u>Awada, Co. 80005</u>

Address

7)


STATE REGISTER OF HISTORIC PROPERTIES OWNER CONSENT FORM

Property Name Malta School

Each partial owner must sign a separate form. Photocopy form as needed. All signatures must be notarized.

5LK.886

Malta School

I Pat Chlouber (type or print name)

President Lake County School Board

title

the school district is certify that Kar the sole owner_____ of the land and property located at

Malta School	Hwy.	24	¥.		
street number				street name	
Leadville			Lake	County	
city			(county	

and that I hereby give my written consent and approval for this property's nomination to and inclusion in the

State Register of Historic Properties.

a, lor

signature

Subscribed and sworn to before me, in my presence, this day of

5 a Notary Public in and for the unty

(county) (state) of

Notary Public



		OAHP1414	B
FOR OFFICIAL	USE Site	Number 5LK8	86
9-14-95	Nomination Re	ceived	
	Determined	Eligible Not	Eligible
	Review Board	Approved	Denied
	CHS Board	Approved	Denied
Level of Sig	nificance:	NatlState	Local

STATE REGISTER OF HISTORIC PROPERTIES

NOMINATION FORM

(Please	type)
1. Nam	of Property
Hi	toric Name Malta School
Cu	rent Name Malta School
2. Add	number State Hwy 24 - Malta Curve street
	Leadville Lake 80461
	city county zip
3. Leg	al Description of Property P.M. <u>6</u> Township <u>95</u> Range <u>80W</u>
NE	$1/4 \text{ of } \frac{NW}{NW} 1/4 \text{ of } \frac{SW}{SW} 1/4 \text{ of } \frac{NW}{NW} 1/4 \text{ of Section } \frac{SS}{SS} \text{ Quad Map}$
Lo	c(s) Block Addition
UT	I Reference: Zone Easting Northing
Ve (bal Boundary Description lescribe the boundaries of the nominated property on a continuation sheet)
4. Pre	sent Owner of Property
N	ame Lake County School District R-1
A	ldress 105 Spruce Phone 719-486-0160
C	ity Leadville State <u>CO</u> Zip <u>80461</u> (if the property is in multiple ownership, please give the names and addresses of each owner on one or more continuation sheets)
5. Pre	parer of Nomination
Na	me Keith Moffett Date Sept. 11, 199
Oı	ganization Lake County School District
Ac	dress 105 Spruce Phone 719-486-0160
C	ty Leadville State CO Zip 80461

15. Significance of Property

1

Nomination Criteria

- X a property is associated with events that have made a significant contribution to history
- _____b property is connected with persons significant in history
- X c property has distinctive characteristics of a type, period, method of construction or artisan

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- d property is of geographic importance
- _____e property contains the possibility of important discoveries related to prehistory or history

Areas of Significance

a. Mining and Raid Road Histor

b. One Room School Construction

16. Significance Statement

(explain the significance of the property on one or more continuation sheets)

17. Bibliography

(cite the books, articles, and other sources used in preparing this form on one or more continuation sheets)

18. Legislative Information

Colorado House District # 61 or Name of Representative Ken Chlouber

Colorado Senate District # _4 or Name of Senator _ Linda Powers

ADDITIONAL MATERIALS TO ACCOMPANY NOMINATION

19. Sketch Map

20. Photocopy of USGS Map

21. Black & White Photos

- 22. Color Slides
- 23. Optional Materials
- 24. Owner Consent for Nomination (attach signed and notarized consent from each owner of property - see next page)

Property Name _	Mal	ta School	15	м	
Section Number	13	Page3	ne Iden		

Description of the property:

This historic one room school measures approximately 20' x 40'. It is a single story building with belfry complete with bell. Front and rear entrance doors, shuttered windows on north, south and west sides of building.

The interior of the school bears an uncanny resemblence to the attached color photo copy of a one room school. The walls (severely damaged) are lath and plaster with the bottom half covered with wainscotting. The floor is tongue and grooved wood in need of sanding and refinishing. The chimney is still in place, but the pot belly stove has been removed. A small shed and outhouse are located on the south side of the building. A small wood sign hangs above the dooor indicating 1902 and the date of construction.

The foundation is brick and mortar. The rest of the building is wood structure, windows, lath and plaster.

Property Name Malta School

Section Number 14 Page 5

1

Alterations to the property:

All indications point to the fact the building has never experienced any alterations or modifications. The exterior of the building has been repainted a school house red some twenty plus years ago. The pot belly stove and early day school desks are no longer in the building.

Property Name _____ Malta School

Section Number 16 Page 7

Significance of Statement:

Little has been written or recorded about the town of Malta. We do know it was a small community with a rail head to accommodate the shipment of ore from the Leadville mines to destinations around the country. The rail head community also provided passenger services for commuters. The one room school was surely an integral part of the community. The school is the only remaining historic building in the township.

Property Name	Malta	School	1 .	
Section Number	17 P	age7	· · ·	

The only thing we can be sure of is the fact the school was built in 1902. It is still standing and in fair condition with some assistance from the State Historical Society the structure can be preserved to near original condition and used as an education tool for present and future generations.

If the property is not listed and repairs are not forthcoming, the school will continue to deteriorate and eventually have to be razed.



Notification List State Register Review Board December 1, 1995

Property: Malta School (5LK886) Colo. Hwy. 24 Leadville

REQUIRED NOTIFICATIONS

1. Owner: Lake County School District R-1 105 Spruce Leadville, CO 80461

Phone: 719-486-0160

2. Preparer: Keith Moffett Lake County School District 105 Spruce Leadville, CO 80461 Phone:

3. County Commissioners James Martin Commission Chair Lake County Commissioners 505 Harrison Avenue Leadville, CO 80461

4. Mayor/Council N/A

OPTIONAL NOTIFICATIONS 1. Colo. House: Ken Chlouber

2. Colo. Senate: Linda Powers

3. Local Historical Society:



The Colorado History Museum 1300 Broadway Denver, Colorado 80203-2137

October 3, 1997

Eleanor Kuhns 11597 Highway 24 South Leadville, COo 80461

> RE: Little Red Schoolhouse, Malta, Lake County and Twin Lakes Schoolhouse, Lake County (7 5LK41 District) 52K876

Dear Ms. Kuhns:

Thank you for your recent inquiry concerning historic designation programs administered by the Colorado Historical Society's Office of Archaeology and Historic Preservation. Our office maintains a state inventory of historic properties as well as programs for the State Register of Historic Properties and the National Register of Historic Places. We currently do not have any information on this property in our files. In order for us to evaluate the property for eligibility to the State or National Register, we need you to complete the enclosed Historic Building Inventory Record and check your nomination preference on the attached sheet. You may also request material on other programs administered by our office.

We have enclosed information and the criteria for the State and National Registers. A property must meet one or more of the criteria to be eligible for listing in either of the Registers. Please be specific in describing how your property meets the criteria and why it is significant. Use additional pages if necessary.

Please return the completed inventory form with clear photographs of the building or structure as well as a map indicating the location of the property. Once you have submitted this material to us, we will evaluate the property to determine if it appears to be eligible for nomination. If it is eligible, we will send you the necessary State or National Register nomination materials. We appreciate your interest in historic preservation. If we can be of further assistance, please contact our office at (303) 866-3392.

Sincerely,

lanne Conway Jeanne Conway

Administrative Assistant

Enclosures

711/96 Annie Butler (77.19).486-0160 P.O. Box 977 7/10/96 seadville CO Contacted So 461 Unionann - hold Redd on Triday Pliemen Capital Life Miltalehood Serving on School Datuct Committee to blo NR 23 (3 within 37 SHF Grant Nocheky Disk Mational sharled 7/12 Rusty put her on Workshiphot

\$28/96 Lift mersoye for Annie & call about . . progress didas they will try to meet 2/14/97 meeting diadline - Pond electro. in Now taking time x resources

20 To S JUZANNE Date 11/28 Time 8:45 E YOU WERE OU toll of_ Phone Extension Number Area Code TELEPHONED PLEASE CALL CALLED TO SEE YOU WILL CALL AGAIN WANTS TO SEE YOU URGENT RETURNED YOUR CALL Message. Malta Schoolhouse Re. 0160 Operator reorder 23-700 Green Cycle" CLED PAPER AMPAD Vant

Dale · Aco : Keith on 12/4/95 He doen't think he Can get info by 12/15. De wants us to keep nomenation on file for May 1996 meeting Leganne

Keith Moffett (719) 486-0160. Called 1, 14 He will be resubmitting material by 12/1. Probably will also submit BHF appliestion for February round Jugan



The Colorado History Museum 1300 Broadway Denver, Colorado 80203-2137

DATE: October 3, 1995

TO: Keith Moffett

SUBJECT: State Register of Historic Properties Nomination - Malta School

I am enclosing the material on the Cherry Creek School and the Doyleville Schoolhouse that should help you in providing us with the additional information we will need on the Malta School property.

Please keep me advised as to your progress. I will be glad to help you with any questions you might have.

Juganne Doggett

Suzanne Doggett Researcher (303) 866-4684

• (Congressional District #: 5 5 K.886 Built in 1902 for District 11. Mount Massive, elevation 14,421 is Colorado's second highest
-	PROPERTY NAME: Malta School House
I	LOCATION: Hwy. 24 S. & Hwy. 300
-	Leadville, Colorado 80461
(OWNER and ADDRESS: County of Lake
	Lake County Courthouse
	Leadville, Colorado 80461
]]]	IF ENTERED ON THE NATIONAL REGISTER, EITHER INDIVIDUALLY OR AS PART OF A DISTRICT, GIVE NAME UNDER WHICH PROPERTY IS LISTED:
-	PROPERTY STATUS
	OWNERSHIP: Private X Public Private Non-Profit
	USE: Income-producing X Non Income-producing
	PROTECTION: Is the property under legal protection such as easements or a local historic district ordinance?
	PROPERTY NEEDS-
	X Construction Project X Non-Construction Project
	DESCRIBE PROJECT AND NEED (Include current condition, nature of threat(s) to the property, work items, products of project and benefits to the community):
	The structure needs structural repairs and refurbishing. Then, instead of
	allowing it to stand vacant and abandoned, it needs to be put to some good
	use, such as tourist information center, museum, crafts or antique store, or
	other use compatible with its historic and unusual nature. Benefit: giving
	new life to an historic structure while generating some kind of income.
	ESTIMATED TOTAL PROJECT COST: \$ possibly as high as \$50,000 or more
OR	MORE INFORMATION CONTACT: Lake County Commissioners TELEPHONE: 719-486-0993
	Date this form prepared: 3/12/88
	Please return this form to Colorado Preservation Inc., P.O. Box 843, Denver, CO *

















APPENDIX 13-9

COLORADO DEPARTMENT OF TRANSPORTATION - HIGHWAY ACCESS PERMIT



According to a phone call with Brian Killian at the Colorado Department of Transportation on January 14th 2020, the access permit transfers with the land as long as the land use remains the same. Same requirements stated in the permit apply to the new landowner.

STATE HIGHWAY	ACCESS PERMI	Γ		
TPKJ			State 024 A	Highway No/Mp. \ / 178.800
Permit fee	Date of transmittal	Region/Section/Patrol	Local	Jurisdiction
\$100.00	10///2011	3 / 02 / 22-2 Mark Laco	me Lake	County
The Permittee(s);		Applicant;	R	Ref No.:
Constructive Investments, LL Holly Michael 6200 S Vivian Street Littleton, CO 80127 303-947-7837	.C	Union Milling Compa Holly Michael 6200 S Vivian Street Littleton, CO 80127 202 047 7927	any, LLC	
is hereby granted permission to have a accordance with this permit, including t by the issuing authority if at any time th appointed agents and employees shall the neural	n access to the state highway a he State Highway Access Code e permitted access and its use be held harmless against any a	505-947-7837 t the location noted below. The ac and any attachments, terms, con violate any parts of this permit. Th ction for personal injury or proper	ccess shall be constru ditions and exhibits. The issuing authority, the type of the second se	ucted, maintained This permit may ne Department a by reason of the
Location: 13815 Highway 24.				
12 14 14 14 14 14 14 14 14 14 14 14 14 14	(Land Use Code:) 0 - General Heavy Industrial 7 - Storage Yard - Lake Cou	-Mill Operation nty Concrete Property	(Size or Coun 20 1	nt) (Units) DHV ADT
Additional Information: Allen K and Barbara J. Phillips,	PO Box 1777, Leadville, CC	9 80461 are additional Permitt	ees on the permit	
Additional Information: Allen K and Barbara J. Phillips, MUNICIPALITY OR COUNTY A Required only when the appropr	PO Box 1777, Leadville, CO P PROVAL iate local authority retains	980461 are additional Permitt	ees on the permit	
Additional Information: Allen K and Barbara J. Phillips, MUNICIPALITY OR COUNTY A Required only when the appropr Signature	PO Box 1777, Leadville, CO PPROVAL iate local authority retains Print Name	9 80461 are additional Permitt	ees on the permit	Date.
Additional Information: Allen K and Barbara J. Phillips, MUNICIPALITY OR COUNTY A Required only when the appropr Signature	PO Box 1777, Leadville, CC PPROVAL iate local authority retains Print Name	9 80461 are additional Permitt	ees on the permit	Date.
Additional Information: Allen K and Barbara J. Phillips, MUNICIPALITY OR COUNTY A Required only when the appropr Signature Upon the signing of this permit therein. All construction shall be of Initiation. The permitted access of being used. The permittee shall notify Mar Grand Junction, Colorado at (7 the State Highway right-of-wa The person signing as the permittee mus accept the permit and its terms and cond	PO Box 1777, Leadville, CO PPROVAL iate local authority retains Print Name Print Name ne permittee agrees to the completed in an expedition shall be completed in accord c Quintana with the Color 719) 486-2044, at least 44 y. t be the owner or legal represer itions	e terms and conditions and us and safe manner and st prdance with the terms and rado Department of Transp B hours prior to commencinative of the property served by the	referenced attachall be finished will conditions of the portation in ng construction will be permitted access a	Date. hments conta ithin 45 days e permit prior vithin and have full auti
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State Highway Access Permit Form 101, Page 2

The following paragraphs are excerpts of the State Highway Access Code. These are provided for your convenience but do not alleviate compliance with all sections of the Access Code. A copy of the State Highway Access Code is available from your local issuing authority (local government) or the Colorado Department of Transportation (Department). When this permit was issued, the issuing authority made its decision based in part on information submitted by the applicant, on the access category which is assigned to the highway, what alternative access to other public roads and streets is available, and safety and design standards. Changes in use or design not approved by the permit or the issuing authority may cause the revocation or suspension of the permit.

APPEALS

1. Should the permittee or applicant object to the denial of a permit application by the Department or object to any of the terms or conditions of a permit placed there by the Department, the applicant and permittee (appellant) have a right to appeal the decision to the [Transportation] Commission [of Colorado]. To appeal a decision, submit a request for administrative hearing to the Transportation Commission of Colorado within 60 days of transmittal of notice of denial or transmittal of the permit for signature. Submit the request to the Transportation Commission of Colorado, 4201 East Arkansas Avenue, Denver, Colorado 80222-3400. The request shall include reasons for the appeal and may include changes, revisions, or conditions that would be acceptable to the permittee or applicant.

2. Any appeal by the applicant or permittee of action by a local issuing authority shall be filed with the local authority and be consistent with the appeal procedures of the local authority.

3. In submitting the request for administrative hearing, the appellant has the option of including within the appeal a request for a review by the Department's internal administrative review committee pursuant to [Code] subsection 2.10. When such committee review is requested, processing of the appeal for formal administrative hearing, 2.9(5) and (6), shall be suspended until the appellant notifies the Commission to proceed with the administrative hearing, or the appellant submits a request to the Commission or the administrative law judge to withdraw the appeal. The two administrative processes, the internal administrative review committee, and the administrative hearing, may not run concurrently.

4. Regardless of any communications, meetings, administrative reviews or negotiations with the Department or the internal administrative review Committee regarding revisions or objections to the permit or a denial, if the permittee or applicant wishes to appeal the Department's decision to the Commission for a hearing, the appeal must be brought to the Commission within 60 days of transmittal of notice of denial or transmittal of the permit.

PERMIT EXPIRATION

1. A permit shall be considered expired if the access is not under construction within one year of the permit issue date or before the expiration of any authorized extension. When the permittee is unable to commence construction within one year after the permit issue date, the permittee may request a one year extension from the issuing authority. No more than two one-year extensions may be granted under any circumstances. If the access is not under construction within three years from date of issue the permit will be considered expired. Any request for an extension must be in writing and submitted to the issuing authority before the permit expires. The request should state the reasons why the extension is necessary, when construction is anticipated, and include a copy of page 1 (face of permit) of the access permit. Extension approvals shall be in writing. The local issuing authority shall obtain the concurrence of the Department prior to the approval of an extension, and shall notify the Department of all denied extensions within ten days. Any person wishing to reestablish an access permit that has expired may begin again with the application procedures. An approved Notice to Proceed, automatically renews the access permit for the period of the Notice to Proceed.

CONSTRUCTION

1. Construction may not begin until a Notice to Proceed is approved. (Code subsection 2.4]

2. The construction of the access and its appurtenances as required by the terms and conditions of the permit shall be completed at the expense of the permittee except as provided in subsection 2.14. All materials used in the construction of the access within the highway right-of-way or on permanent easements, become public property. Any materials removed from the highway right-of-way will be disposed of only as directed by the Department. All fencing, guard rail, traffic control devices and other equipment and materials removed in the course of access construction shall be given to the Department unless otherwise instructed by the permit or the Department inspector.

3. The permittee shall notify the individual or the office specified on the permit or Notice to Proceed at least two working days prior to any construction within state highway right-of-way. Construction of the access shall not proceed until both the access permit and the Notice to Proceed are issued. The access shall be completed in an expeditious and safe manner and shall be finished within 45 days from initiation of construction within the highway right-of-way. A construction time extension not to exceed 30 working days may be requested from the individual or office specified on the permit.

4. The issuing authority and the Department may inspect the access during construction and upon completion of the access to ensure that all terms and conditions of the permit are met. Inspectors are authorized to enforce the conditions of the permit during construction and to halt any activities within state right-of-way that do not comply with the provisions of the permit, that conflict with concurrent highway construction or maintenance work, that endanger highway property, natural or cultural resources protected by law, or the health and safety of workers or the public.

5. Prior to using the access, the permittee is required to complete the construction according to the terms and conditions of the permit. Failure by the permittee to abide by all permit terms and conditions shall be sufficient cause for the Department or issuing authority to initiate action to suspend or revoke the permit and close the access. If in the determination of the Department or issuing authority the failure to comply with or complete the construction requirements of the permit create a highway safety hazard, such shall be sufficient cause for the summary suspension of the permit. If the permittee wishes to use the access prior to completion, arrangements must be approved by the issuing authority and Department and included in the permit. The Department or issuing authority may order a halt to any unauthorized use of the access pursuant to statutory and regulatory powers. Reconstruction or improvement of the access may be required when the permittee has failed to meet required specifications of design or materials. If any construction element fails within two years due to improper construction or material specifications, the permittee shall be responsible for all repairs. Failure to make such repairs may result in suspension of the permit and closure of the access.

6. The permittee shall provide construction traffic control devices at all times during access construction, in conformance with the M.U.T.C.D. as required by section 42-4-104, C.R.S., as amended.

7. A utility permit shall be obtained for any utility work within highway right-of-way. Where necessary to remove, relocate, or repair a traffic control device or public or private utilities for the construction of a permitted access, the relocation, removal or repair shall be accomplished by the permittee without cost to the Department or issuing authority, and at the direction of the Department or utility company. Any damage to the state highway or other public right-of-way beyond that which is allowed in the permit shall be repaired immediately. The permittee is responsible for the repair of any utility damaged in the course of access construction, reconstruction or repair.

8. In the event it becomes necessary to remove any right-ofway fence, the posts on either side of the access shall be securely braced with an approved end post before the fence is cut to prevent any slacking of the remaining fence. All posts and wire removed are Department property and shall be turned over to a representative of the Department.

9. The permittee shall ensure that a copy of the permit is available for review at the construction site at all times. The permit may require the contractor to notify the individual or office specified on the permit at any specified phases in construction to allow the field inspector to inspect various aspects of construction such as concrete forms, subbase, base course compaction, and materials specifications. Minor changes and additions may be ordered by the Department or local authority field inspector to meet unanticipated site conditions.

10. Each access shall be constructed in a manner that shall not cause water to enter onto the roadway or shoulder, and shall not interfere with the existing drainage system on the right-of-way or any adopted municipal system and drainage plan.

11. The Permittee is responsible for obtaining any necessary additional Federal, State and/or City/County permits

or clearances required for construction of the access. Issuance of this access permit does not constitute verification of the above required actions by the Permittee.

By accepting the permit, the permittee stipulates and agrees to fully protect, save, defend, indemnify, and hold harmless, to the extent allowed by law, the issuing Authority, and each of the Authority's directors, officers, employees, agents and representatives, from and against any and all claims, costs (including but not limited to all reasonable fees and charges of engineers, architects, attorneys, and other professionals or expert witnesses and all court or other dispute resolution costs directly incurred by reason of claims directly brought against the Authority), losses, damages, pre- or postjudgment interest, causes of action, suits, or liability of any nature whatsoever by reason of liability imposed due to Permittee's failure to obtain, or disregard of, any applicable federal, state or local environmental permits, approvals, authorizations, or clearances, or in meeting or complying with any applicable federal, state or local environmental law, regulation, condition or requirements in connection with any activities authorized by this Access Permit.

CHANGES IN ACCESS USE AND PERMIT VIOLATIONS

1. It is the responsibility of the property owner and permittee to ensure that the use of the access to the property is not in violation of the Code, permit terms and conditions or the Act. The terms and conditions of any permit are binding upon all assigns, successors-in-interest, heirs and occupants. If any significant changes are made or will be made in the use of the property which will affect access operation, traffic volume and or vehicle type, the permittee or property owner shall contact the local issuing authority or the Department to determine if a new access permit and modifications to the access are required.

2. When an access is constructed or used in violation of the Code, section 43-2-147(5)(c), C.R.S., of the Act applies. The Department or issuing authority may summarily suspend an access permit and immediately order closure of the access when its continued use presents an immediate threat to public health, welfare or safety. Summary suspension shall comply with article 4 of title 24, C.R.S.

MAINTENANCE

1. The permittee, his or her heirs, successors-in-interest, assigns, and occupants of the property serviced by the access shall be responsible for meeting the terms and conditions of the permit, the repair and maintenance of the access beyond the edge of the roadway including any cattle guard and gate, and the removal or clearance of snow or ice upon the access even though deposited on the access in the course of Department snow removal operations. Within unincorporated areas the Department will keep access culverts clean as part of maintenance of the highway drainage system. However, the permittee is responsible for the repair and replacement of any access-related culverts within the right-of-way. Within incorporated areas, drainage responsibilities for municipalities are determined by statute and local ordinance. The Department will maintain the roadway including auxiliary lanes and shoulders, except in those cases where the access installation has failed due to improper access construction and/or failure to follow permit requirements and specifications in which case the permittee shall be responsible for such repair. Any significant repairs such as culvert replacement, resurfacing, or changes in design or specifications, requires authorization from the Department.

Located on SH 24 at mile post 178.80 Right Issued to Construction Investments

TERMS AND CONDITIONS

- 1. This permitted access is only for the use and purpose stated in the Application and Permit. This Permit is issued in accordance with the State Highway Access Code (2 CCR 601-1), and is based in part upon the information submitted by the Permittee. Any subsequent relocation, reconstruction, or modifications to the access or changes in the traffic volume or traffic nature using the access shall be requested for by means of a new application. Any changes causing non-compliance with the Access Code may render this permit void, requiring a new permit.
- 2. The traffic volume shall be 20 DHV for Union Milling Company LLC. However, traffic may not be over 80 trips daily for a milling operation. The traffic volume does include PCE's in accordance with the Code. This access is also for Lake County Concrete property also known as Uintah Placer on Improvement Location Certificate Hopemore Mill dated January 20, 2009. The current Lake County Concrete property traffic use is for 1 average daily volume.
- 3. This access shall be constructed 25-35 feet wide with turning radii to accommodate the minimum turning radius of the largest vehicle or 35 foot, whichever is greater. The radii shall ensure the safe turning movements without encroachment onto other highway travel lane.
- 4. The Permittee shall install a R1-1sign in accordance with the MUTCD.
- 5. The Permittees are Constructive Investments, LLC and Allen K and Barbara J. Phillips.
- 6. An 18-inch minimum culvert with protective end treatments may be required for this access. The culvert shall be kept free of blockage to maintain proper flow and drainage.
- 7. The access shall be constructed perpendicular to the travel lanes of the State Highway for a minimum distance of 40 feet from the edge of roadway. Side slopes shall be at a 4:1 slope on the roadway. The roadway shall slope away from the highway at a -2% grade for the first 20 feet of driveway. This design shall be in conformance with section 4 of the State Highway Access Code, 2CCR 601-1.
- 8. The permittee shall remove or trim the vegetation to get the required sight distance and enter sight distance in accordance with the Code.
- 9. It shall be the responsibility of the Permittee to maintain adequate sight distance for this driveway. Trimming of vegetation or trees to maintain adequate sight distance is the sole responsibility of the Permittee.
- 10. <u>Materials, Placing and Compaction of a Commercial Access up to 99 DHV</u>: Unless the Applicant has approval from the Access Manager which may state otherwise, the following will be required for driveway construction: Base: 16 inches of class 6 gravel with maximum 6 inch lifts, Surface: 4 inches of Pavement in two 2 inch lifts. Compaction of the subgrade, embankments and backfill shall comply with sections 203 & 304 of the Colorado Highway Standard Specifications for Road and Bridge Construction.
- 11. The access shall be surfaced in accordance with Section 4.7 of the Access Code immediately upon completion of earthwork construction and prior to use. This access shall be hard surfaced in accordance with Section 4.7 of the Access Code a minimum distance of 50 feet from the traveled way or to the CDOT Right-of-Way. Where the hard surface is to abut existing pavement, the existing pavement shall be saw cut and removed a minimum of one foot back from the existing edge for bituminous, or until an acceptable existing cross slope is

achieved. Surfacing shall meet the Department's specifications with minimum surfacing to be equal to or greater than existing highway conditions.

- 12. This permit replaces any and all additional access permits that may be in existence for this access. All other access locations to this parcel shall be removed as part of this permit.
- 13. A Notice to Proceed, CDOT Form 1265, is required before beginning construction on the access or any activity within the highway Right-of-Way. To receive the Notice to Proceed the Applicant shall submit a complete packet to CDOT with the following items:
 - (a) A cover letter requesting a Notice to Proceed, and the intended date to begin construction.
 - (b) Construction Plans Stamped (11"x 17" with a minimum scale of 1" = 50') by a Colorado Registered Professional Engineer in full compliance with the State Highway Access Code The plan shall provide:
 - i) Plan view with driveway dimensions turn radius, width, slope, gates, etc.
 - ii) Typical road section existing and proposed sub base, base, pavement, and shoulder dimensions.
 - iii) Centerline profile of the access/Hwy connection showing depths, driveway slope, etc.
 - iv) Need to demonstrate sight distance meets the requirements of the State Highway Access Code.
 - (c) Certificate of Insurance Liability as per Section 2.3(11)(i) of the State Highway Access Code.
 - (d) A certified Traffic Control Plan in accordance with Section 2.4(6) of the Access Code. The Traffic Control Plan shall provide accessibility features to accommodate all pedestrians including persons with disabilities for all pathways during construction.
- 14. No drainage from this site shall enter onto the State Highway travel lanes. The Permittee is required to maintain all drainage in excess of historical flows and time of concentration on site. All existing drainage structures shall be extended, modified or upgraded, as applicable, to accommodate all new construction and safety standards, in accordance with the Department's standard specifications.
- 15. Open cuts, which are at least 4 inches in depth, within 30 feet of the edge of the State Highway traveled way, will not be left open at night, on weekends, or on holidays, or shall be protected with a suitable barrier per State and Federal Standards.
- Nothing in this permit shall prohibit the Chief Engineer from exercising the right granted in CRS 43-3-102 Including but not limited to restricting left hand turns by construction of physical medial separations.
- 17. The Permittee is responsible for obtaining any necessary additional Federal, State and/or City/County permits or clearances required for construction of the access. Approval of this access permit does not constitute verification of this action by the Permittee. Permittee is also responsible for obtaining all necessary utility permits in addition to this access permit.
- 18. All workers within the State Highway right of way shall comply with their employer's safety and health policies/procedures, and all applicable U.S. Occupational Safety and Health Administration (OSHA) regulations - including, but not limited to the applicable sections of 29 CFR Part 1910 - Occupational Safety and Health Standards and 29 CFR Part 1926 - Safety

and Health Regulations for Construction. Personal protective equipment (e.g. head protection, footwear, high visibility apparel, safety glasses, hearing protection, respirators, gloves, etc.) shall be worn as appropriate for the work being performed, and as specified in regulation.

- 19. The Permittee is required to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) that have been adopted by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board), and incorporated by the U.S. Attorney General as a federal standard. These guidelines are defining traversable slope requirements and prescribing the use of a defined pattern of truncated domes as detectable warnings at street crossings. The new Standards Plans and can be found on the Design and Construction Project Support web page at: <u>http://www.dot.state.co.us/DesignSupport/</u>, then click on *Design Bulletins*.
- 20. When it is necessary to remove any highway right-of-way fence, the posts on either side of the access entrance shall be securely braced with approved end posts and in conformance with the Department's M-607-1 standard, before the fence is cut, to prevent slacking of the remaining fence. All materials removed shall be returned to the Department.
- 21. The permittee, his or her heirs, successors-in-interest, assigns, and occupants of the property serviced by the access shall be responsible for meeting the terms and conditions of the permit, the repair and maintenance of the access beyond the edge of the roadway including any cattle guard and gate, and the removal or clearance of snow or ice upon the access even though deposited on the access in the course of Department snow removal operations. Within unincorporated areas the Department will keep access culverts clean as part of maintenance of the highway drainage system. However, the permittee is responsible for the repair and replacement of any access-related culverts within the right-of-way. Within incorporated areas, drainage responsibilities for municipalities are determined by statute and local ordinance. The Department will maintain the roadway including auxiliary lanes and shoulders, except in those cases where the access installation has failed due to improper access construction and/or failure to follow permit requirements and specifications in which case the permittee shall be responsible for such repair. Any significant repair such as culvert replacement, resurfacing, or changes in design or specifications, requires authorization from the Department.
- 22. Any damage to present highway facilities including traffic control devices shall be repaired immediately at no cost to the Department and prior to continuing other work.
- 23. During access construction no construction personal vehicles will be permitted to park in the state highway right-of-way.
- 24. If the access has a gate across it, the gate shall be set back far enough from the highway so that the longest vehicle using it can clear the roadway when the gate is closed.
- 25. Any mud or other material tracked or otherwise deposited on the roadway shall be removed daily or as ordered by the Department inspector. If mud is an obvious condition during site construction, it is recommended that the contractor build a Stabilized Construction Entrance or Scrubber Pad at the intended construction access to aid in the removal of mud and debris from vehicle tires. The details of the Stabilized Construction Entrance can be found in the M & S Standards Plan No. M-208-1.
- 26. A fully executed, complete copy of this permit and the Notice to Proceed must be on the job site with the contractor at all times during the construction. Failure to comply with this or any

other construction requirement may result in the immediate suspension of work by order of the Department inspector or the issuing authority.

- 27. No work will be allowed at night, Saturdays, Sundays and legal holidays without prior authorization from the Department. The Department may also restrict work within the State Highway right-of-way during adverse weather conditions.
- 28. The access shall be completed in an expeditious and safe manner and shall be completed within 45 days from initiation of construction within State Highway right-of-way or in accordance with written concurrence of the Access Manager. All construction shall be completed in a single season.
- 29. All costs associated with any type of utility work will be at the sole responsibility and cost of the Permittee and at no cost to CDOT.
- 30. Areas of roadway and/or right-of-way disturbed during this installation shall be restored to their original conditions to insure proper strength and stability, drainage and erosion control. Restoration shall meet the Department's standard specifications for topsoil, fertilization, mulching, and re-seeding.
- 31. Upon the completion of the access and prior to any use as allowed by this permit, the Applicant shall notify the Access Manager by certified mail within 10 days to request a final inspection. This request shall include certification that all materials and construction have been completed in accordance with all applicable Department Standards and Specifications; and that the access is constructed in conformance with the State Highway Access Code, 2 CCR 601-1, including this permit. The Engineer of Record as indicated on the construction plans, shall be present for this inspection. The access serviced by this permit may not be opened to traffic until written approval has been given from the CDOT Access Manager.

COLORADO DEPARTMENT OF TRANSPORTATION

Environmental Clearances Information Summary

PURPOSE - This summary is intended to inform entities external to CDOT that may be entering the state highway right-of-way to perform work related to their own facilities (such as Utility, Special Use or Access Permittees), about some of the more commonly encountered environmental permits/clearances that may apply to their activities. This listing is not all-inclusive - additional environmental or cultural resource permits/clearances may be required in certain instances. Appropriate local, state and federal agencies should be contacted for additional information if there is any uncertainty about what permits/clearances are required for a specific activity. **IMPORTANT – Please Review The Following Information Carefully – Failure to Comply With Regulatory Requirements May Result In Suspension or Revocation of Your CDOT Permit, Or Enforcement Actions By Other Agencies**

CLEARANCE CONTACTS - As indicated in the permit/clearance descriptions listed below, the following individuals or agencies may be contacted for additional information:

- Colorado Department of Public Health and Environment (CDPHE): General Information (303) 692-2035 Water Quality Control Division (WQCD): (303) 692-3500
 Environmental Parmitting Website http://www.edube.state.co.us/parmits.com
 - Environmental Permitting Website <u>http://www.cdphe.state.co.us/permits.asp</u>.
- CDOT Water Quality Program Manager: Rick Willard (303) 757-9343 <u>http://www.coloradodot.info/programs/environmental/water-guality</u>
- CDOT Asbestos Project Manager: Theresa Santangelo-Dreiling, (303) 512-5524
- Colorado Office of Archaeology and Historic Preservation: (303) 866-3395
- U.S. Army Corps of Engineers, District Regulatory Offices: Omaha District (NE Colorado), Denver Office (303) 979-4120 <u>http://www.nwo.usace.army.mil/html/od-tl/tri-lakes.html</u> Sacramento Dist. (Western CO), Grand Junction Office (970) 243-1199 <u>http://www.spk.usace.army.mil/cespk-co/regulatory/</u> Albuquerque District (SE Colorado), Pueblo Reg. Office (719)-543-6915 <u>http://www.spa.usace.army.mil/reg/</u>
- CDOT Utilities, Special Use and Access Permitting: (303) 757-9654 <u>http://www.dot.state.co.us/Permits/</u>

<u>Ecological Resources</u> – Disturbance of wildlife shall be avoided to the maximum extent practicable. Entry into areas of known or suspected threatened or endangered species habitat will require special authorization from the CDOT permitting office. If any threatened or endangered species are encountered during the progress of the permitted work, work in the subject area shall be halted and the CDOT Regional Permitting Office and Region Planning and Environmental Manager shall be contacted immediately. Authorization must be provided by CDOT prior to the continuation of work. Information about threatened or endangered species may be obtained from the CDOT website, http://coloradodot.info/programs/environmental/wildlife/guidelines, or the Colorado Division of Wildlife website http://wildlife.state.co.us/WildlifeSpecies/SpeciesOfConcern/. Additional guidance may be provided by the appropriate Region Planning and Environmental Manager (RPEM).

<u>Cultural Resources</u> – The applicant must request a file search of the permit area through the Colorado Office of Archaeology and Historic Preservation (OAHP), Denver, to ascertain if historic or archaeological resources have previously been identified. Inventory of the permit area by a qualified cultural resources specialist may be necessary, per the recommendation of CDOT. If archaeological sites/artifacts or historic resources are known to exist prior to the initiation of the permitted work or are encountered as the project progresses, all work in the subject area shall be halted and the CDOT Regional Permitting Office and Region Planning and Environmental Manager shall be contacted immediately. Authorization must be provided by CDOT prior to the continuation of work. Additional guidance may be provided by the Regional Permitting Office and RPEM. *Contact Information:* Contact the OAHP for file search at (303) 866-3395.

Paleontological Resources - The applicant must request a fossil locality file search through the University of Colorado Museum, Boulder, and the Denver Museum of Nature and Science to ascertain if paleontological resources have been previously identified. Inventory of the permit area by a qualified paleontologist may be necessary, per the recommendation of CDOT. If fossils are encountered during the permitted work, all work in the subject area shall be halted and the CDOT Regional Permitting Office and Region Planning and Environmental Manager shall be contacted immediately. Authorization must be provided by CDOT prior to the continuation of work. Additional guidance may be provided by the Regional Permitting Office in the Permit Special Provisions. **Contact Information:** Contact the CDOT Paleontologist at (303) 757-9632.

Hazardous Materials, Solid Waste - The Solid Wastes Disposal Sites and Facilities Act C.R.S. 30-20-100, et al, and Regulations Pertaining to Solid Waste Disposal Sites and Facilities (6 CCR 1007-2), prohibit solid waste disposal without an approved Certificate of Designation (a landfill permit). The Colorado Hazardous Waste Act C.R.S. 25-15-301 et al, and the Colorado Hazardous Waste Regulations (6 CCR 1007-3) prohibit the transfer, storage or disposal (TSD) of hazardous waste except at permitted TSD sites. There are no permitted landfills or TSD sites within the State Highway Right of Way. Therefore, all solid or hazardous wastes that might be generated by the activities of entities entering the State Highway Right of Way must be removed from the ROW and disposed of at a permitted facility or designated collection point (e.g., for solid waste, a utility or construction company's own dumpster). If pre-existing solid waste or hazardous materials contamination (including oil or petroleum contaminated soil, asbestos, chemicals, mine tailings, etc.) is encountered during the performance of work, the permittee shall halt work in the affected area and immediately contact the CDOT Regional Permitting Office for direction as to how to proceed. *Contact Info:* Andy Flurkey, CDOT Hazardous Materials Project Manager, (303) 512-5520.

Asbestos Containing Materials, Asbestos Contaminated Soil – All work on asbestos containing materials (ACM) must comply with the applicable requirements of the CDPHE Air Pollution Control Division's (APCD) Regulation 8. Disposal of ACM, and work done in asbestos-contaminated soil, must comply with the CDPHE Hazardous Materials and Waste Management Division's (HMWMD) Solid Waste Regulations. The application for any CDOT permit must specifically identify any ACM involved in the work for which authorization is being requested. Additional guidance or requirements may be specified in the permit special provisions. *Contact Info:* CDPHE APCD and HMWMD Regulations can be accessed via the CDPHE Environmental Permitting Website listed above. Additional information <u>concerning clearance on CDOT projects</u> is available from the CDOT Asbestos Project Manager (303) 512-5519, or Theresa Santangelo-Dreiling, Property Management Supervisor (303) 512-5524.

Transportation of Hazardous Materials - No person may offer or accept a hazardous material for transportation in commerce unless that person is registered in conformance with the United States Department of Transportation regulations at 49 CFR, Part 171. The hazardous material must be properly classed, described, packaged, marked, labeled, and in condition for shipment as required or authorized by applicable requirements, or an exemption, approval or registration has been issued. Vehicles requiring a placard, must obtain authorization and a State HAZMAT Permit from the Colorado Public Utilities Commission. *Contact Information:* For authorization and more info call the Federal Motor Safety Carrier Administration, US DOT for inter- and intra-state HAZMAT Registration (303) 969-6748. Colorado Public Utilities Commission: (303) 894-2868.

Discharge of Dredged or Fill Material – 404 Permits Administered By the U.S. Army Corps of Engineers, and Section 401 Water Quality Certifications Issued by the CDPHE WQCD - Corps of Engineers 404 Permits are required for the discharge of dredged or fill materials into waters of the United States, including wetlands. There are various types of 404 Permits, including Nationwide Permits, which are issued for activities with relatively minor impacts. For example, there is a Nationwide Permit for Utility Line Activities (NWP #12). However, depending upon the specific circumstances, it is possible that either a "General" or "Individual" 404 permit would be required. If an Individual 404 Permit is required, Section 401 water quality certification from the CDPHE WQCD is also required. Contact the appropriate Corps District Regulatory Office for information about what type of 404 permit may be required (contact information above). Contact the CDPHE Water Quality Control Division at (303) 692-3500.

Working on or in any stream or its bank - In order to protect and preserve the state's fish and wildlife resources from actions that may obstruct, diminish, destroy, change, modify, or vary a natural existing stream or its banks or tributaries, it may be necessary to obtain a Senate Bill 40 certification from the Colorado Department of Natural Resources. A stream is defined as 1) represented by a solid blue line on USGS 7.5' quadrangle maps; and/or 2) intermittent streams providing live water beneficial to fish and wildlife; and/or 3) segments of streams supporting 25% or more cover within 100 yards upstream or downstream of the project; and/or 4) segments of streams having wetlands present within 200 yards upstream or downstream of the project. The Colorado Division of Wildlife (CDOW) application, as per guidelines agreed upon by CDOT and CDOW, can be accessed at

http://www.coloradodot.info/programs/environmental/wildlife/guidelines.

Stormwater Construction Permit (SCP) and Stormwater Discharge From Industrial Facilities - Discharges of stormwater runoff from construction sites disturbing one acre or more - or certain types of industrial facilities, such as concrete batch plants - requires a CDPS Stormwater Construction Permit. *Contact Information:* For Utility/Special Use activities being performed in conjunction and coordination with a CDOT highway construction contract, please contact the CDOT Water Quality Program Manager at (303) 757-9343. Otherwise, contact the CDPHE Water Quality Control Division at (303) 692-3500. Website: http://www.cdphe.state.co.us/wg/PermitsUnit/index.html.

<u>Construction Dewatering</u> (Discharge or Infiltration) – Discharges of water encountered during excavation or work in wet areas may require a Construction Dewatering Discharge Permit. *Contact Information:* For Construction Dewatering Discharge Permits, contact the CDPHE WQCD at (303) 692-3500. For Dewatering Application and Instructions, see Section 3 at the CDPHE website: http://www.cdphe.state.co.us/wq/PermitsUnit/FORMSandApplications/Appsandformsnewpage.html

<u>Municipal Separate Storm Sewer System (MS4) Discharge Permit</u> – Discharges from the storm sewer systems of larger municipalities, and from the CDOT highway drainage system that lies within those municipalities, are subject to MS4 Permits issued by the CDPHE WQCD. For facilities that lie within the boundaries of a municipality that is subject to an MS4 permit, the owner of such facility should contact the municipality regarding stormwater related clearances that may have been established under that municipality's MS4 permit. All discharges to the CDOT highway drainage system or within the Right of Way (ROW) must comply with the applicable provisions of the Colorado Water Quality Control Act and the Colorado Discharge Permit Regulations Permit # COS-000005 (http://www.coloradodot.info/programs/environmental/water-quality/documents/CDOT%20MS4%20Permit.doc/view) and COR-030000 (http://www.cdphe.state.co.us/wq/PermitsUnit/PERMITs/SWpermitsrats/SWConstructionPErmit.pdf). Discharges are subject to inspection by CDOT and CDHPE. Contact the CDPHE Water Quality Control Division at (303) 692-3500 for a listing of municipalities required to obtain MS4 Permits, or go to http://www.cdphe.state.co.us/wq/permitsunit/MS4/MS4Permittees.pdf.

<u>General Prohibition – Discharges</u> - All discharges are subject to the provisions of the Colorado Water Quality Control Act and the Colorado Discharge Permit Regulations. Prohibited discharges include, but are not limited to, substances such as wash water, paint, automotive fluids, solvents, oils or soaps and sediment. Allowable non-stormwater discharges can be found at http://www.coloradodot.info/programs/environmental/water-quality/glossary.html#AllowableDischarge. *Contact Information:* Contact the CDOT Water Quality Program Manager at (303) 757-9343, or the Colorado Department of Public Health and Environment, Water Quality Control Division at (303) 692-3500.

<u>General Authorization - Allowable Non-Stormwater Discharges</u> - Unless otherwise identified by CDOT or the WQCD as significant sources of pollutants to the waters of the State, the following discharges to stormwater systems are allowed without a Colorado Discharge Permit System permit: landscape irrigation, diverted stream flows, uncontaminated ground water infiltration to separate storm sewers, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, uncontaminated springs, footing drains; water line flushing, flows from riparian habitats and wetlands, and flow from fire fighting activities. *Contact Information:* The CDOT Water Quality Program Manager or the CDPHE Water Quality Control Division (telephone #'s listed above).

Erosion and Sediment Control Practices - For activities requiring a Stormwater Construction Permit, erosion control requirements will be specified through that permit. In those situations where a stormwater permit is not required, all reasonable measures should be taken in order to minimize erosion and sedimentation according to CDOT 208 specifications. In either case, the CDOT Erosion Control and Stormwater Quality Guide (most recent version) should be used to design erosion controls and to restore disturbed vegetation. *Contact Information:* The CDOT Erosion Control and Stormwater Quality Guide may be obtained from the Bid Plans Office at (303) 757-9313 or from: http://www.dot.state.co.us/environmental/envWaterQual/wqms4.asp Error! Hyperlink reference not valid.

Disposal of Drilling Fluids - Drilling fluids used in operations such as Horizontal Directional Drilling may be classified as "discharges" or "solid wastes", and in general, should be pumped or vacuumed from the construction area, removed from the State Highway Right of Way, and disposed of at permitted facilities that specifically accept such wastes. Disposal of drilling fluids into storm drains, storm

sewers, roadside ditches or any other type of man-made or natural waterway is prohibited by Water Quality Control and/or Solid Waste regulations. Small quantities of drilling fluid solids (less than 1 cubic yard of solids) may be left on-site after either being separated from fluids or after infiltration of the water, provided: 1) the drilling fluid consists of only water and bentonite clay, or, if required for proper drilling properties, small quantities of polymer additives that are approved for use in drinking water well drilling; 2) the solids are fully contained in a pit, and are not likely to pose a nuisance to future work in the area, 3) the solids are covered and the area restored as required by CDOT permit requirements (Utility, Special Use, or Access Permits, etc.). *Contact Information:* Contact the CDOT / CDPHE Liaison or CDOT Water Quality Program Manager.

<u>Concrete Washout</u> - Waste generated from concrete activities shall NOT be allowed to flow into the drainage ways, inlets, receiving waters, or in the CDOT ROW. Concrete waste shall be placed in a temporary concrete washout facility and must be located a minimum of 50 feet from state waters, drainageways, and inlets. Concrete washout shall only be performed as specified by the CDOT Environmental Program and shall be in accordance to CDOT specifications and guidelines. *Contact Information:* Contact the CDOT Water Quality Program Manager at (303) 757-9343. Website: http://www.coloradodot.info/programs/environmental/water-guality/revised-m-standards; refer to the link *Revision of Sections 101, 107, 208, 213 and 620 Water Quality Control One or More Acres of Disturbance* for additional guidance.

Spill Reporting - Spills shall be contained and cleaned up as soon as possible. Spills shall NOT be washed down into the storm drain or buried. All spills shall be reported to the CDOT Illicit Discharge Hotline at (303) 512-4446 (4H20), as well as the Regional Permitting Office and Regional Maintenance Supervisor. Spills on highways, into waterways, any spill in the highway right-of-way exceeding 25 gallons, or that may otherwise present an immediate danger to the public shall be reported by calling 911, and shall also be reported to the CDPHE at 1-877-518-5608.

<u>About This Form</u> - Questions or comments about this Information Summary may be directed to Alex Karami, CDOT Safety & Traffic Engineering, Utilities Unit, at (303) 757-9841, <u>mailto:</u>alex.karami@dot.state.co.us.



APPENDIX 13-10

COLORADO STATE ENGINEER - MONITORING WELL PERMITS

WELL PERMIT NUMBER 295655

CJK MILLING COMPANY LLC MONITORING WELL - MW2-SW

FORM NO. GWS-31 04/2005	STATE OF CC 1313 Sherman S Phone - Info (30 Fax (303) 865-34	WELL CONS LORADO, OFF L. Room 818, De 3) 866-3587 Ma	FICE OF THE enver, CO 802 in (303) 865-38	AND TEST STATE ENG 03 581	REPORT	For C	Office Use Only
1. WELL PE	RMIT NUMBER:	295655	Taipawy	WW.Water.State	2.CO.US	(h) b) b	
2. WELL OW	NER INFORMATIO	Inion	Milling	Company			
MANUE OF	DODECO		MITTING	company	LLC		· · · · · · · · ·
CITY: 14	ADDRESS:	P.U.BO	X 020490		710 0005. 001 00		
TELEPHO	NE NUMBER: () 303-94	7-7837		ZIP CODE: 80162		
3. WELL LOC	ATION AS DRILLE	D: NW 1/4	NF 1/4 3	Sec 33	Two 9 TINOR	Ranna 80	DEON
DISTANCE	S FROM SEC. LIN	ES: # 1	fl. from [Nor	section line and, LOT, BLOC	fl from E	G (UNIT)
Optional G must be me	PS Location: GPS sters, Datum must l	Unit must use be NAD83, Unit	the following I must be set	settings: Fo to true N,	rmat must be UTM, Units Zone 12 or X Zone 13	Owner's Well Easting: 38	Designation: 34906
STREET A	DDRESS AT WELL	LOCATION:	13815 H	ighway 2	4	Northing: 43	343010
4. GROUND S	SURFACE ELEVAT	ION	fesil		DRILLING METHOD	- Ca	abletool
DATE CON	IPLETED Oct	1, 2014 T	OTAL DEPTH	H 53	feet DEPTH COM	PLETED 53	feel -
5. GEOLOGIC	LOG:	1	1	1	6. HOLE DIAM (in.)	From (ft)	To (ft)
Depth	Туре	Grain Size	Color	Water Loc	9		53
					7. PLAIN CASING:		
0 - 53	Glacial fill				OD (in) Kind V	Vall Size (în)	From (ft) To (ft)
					7steel _	.188	+3 33
					<u>5 9/16 steel</u>	.188	+2 42
					PERFORATED CASING	: Screen Slot Si	ize (in): .060
				45-	<u>5 1/2</u> stainle	ess steel so	creen
				53			42 52
18 bags	(50#) 8/12 si	lica sand	39-53 f	t	8. FILTER PACK:	9. PACKER P	LACEMENT:
1-5 gal t	bucket 1/4" b	entonite	bellets 3	7-39 ft.	Material	Туре	
					Size	Depth	
					10. GROUTING RECORD		
					Material Amount D	ensity Interv	al Placement
Remarks:			1		cement 10 bags	6 to 1 3	to 20 poured
2. WELL TES	TDATA: Check	box if Test Dat	a is submitted	d on Form N	Amt. Used 1/2 umber GWS 39 Supplement	ntal Well Test.	
TESTING MET	HODbaile	r	. Oata		014	2	
Static Level Pumping Level	<u>44</u> ft, Date	e/Time measuri e/Time measuri	ed:	ber 1, 2	UI4, Production Rate , Test Length (hr	e <u>2</u> (s) <u>2</u>	jpm.
Remarks: 3. Thave read the	e statements made he	rein and know th Well Construction	e contents the	reof, and they 3 402-2. The	are true to my knowledge. Th filing of a document that conte	nis document is sig	ned and certified in
ection 37-91-108	(1)(e), C.R.S., and is p	unishable by fine	as up to \$5000	and/or revoca	tion of the contracting license.		
Company Nam	e: Golde	n Eagle Dr	illing C	orp.	() 970-668	3-3564	se Number: 388
Malling Address Signature:	S: P.O.B	0x 475, Fr	Print Nan	80443 ne and Title	Joe W. Shelton	Pres.	Date 10-111-116
1	a m gin		1		out n. onercon,	,	1 1 14 14

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and the second second

Form No. GWS-11 08/2016	COLORADO DIVISION DEPARTMENT OF 1313 Sherman St., S (303) dwrpermitso CHANGE IN OWNER NAME	NOF WATER RESOURCES NATURAL RESOURCES Site 821, Denver CO 80203) 866-3581 nline@state.co.us E/MAILING ADDRESS		For Office Use Only
INCOMPLETE,	PRIOR TO COMPLETING THIS FORM, SEE II POOR QUALITY, OR ILLEGIBLE FORMS CAN	NSTRUCTIONS ON REVERSE SIDE INOT BE PROCESSED AND WILL BE RETUR	NED	
Name, addres	s and phone number of person claiming ov	nership of the well permit:		
Name(s): <u>C</u>	JK MILING COMPANY		_	
Mailing Addres	SS: 33084 BERGEN M	ONTAIN RD.		
City, St. Zip:	EVERWREEN, CO 804	139		
Phone: (72) 412-8858 Email: GKNI	PPA @ MSN, COM	_	
Well Permit N	lumber: 295655 Receip	Number: 36660288 Case	Number (opti	onal):
WELL LOCAT	ION: County: LAKE	Well Name or # (optional):	MW2.	-SW
13815	5 US HIGHWAY ZA	LEADVILLE	<u>CO</u> State	2ip
Check if	well address is same as owner's mailing a	ddress		
NN14 of	the NE 1/4 Sec. 33 . Township		. or 🔯 W., _	6TH P.M.
Distance from	Section Lines: 379 Ft. from XIN.	or S. Line, 1335 Ft. from	E. or	/. Line.
Subdivision N	ame (if applicable): <u>N/A</u>	, Lot	, Block	, Filing/Unit
NOTE: If char	nging/correcting the permitted location of a	well, use Form No. GWS-42.		
I (we) claim a and state that	nd say that I am (we are) the owner(s) of the time is a set of the time to my (our) knowledge. This	ne well permit described above, know the of filing is made pursuant to C.R.S. 37-90-14	contents of the	e statements made herein,
Signature(s)	of the New Owner	Please print the Signer's Name & Title		Date
It is the respor see instruction Please allow 4	nsibility of the new owner of this well permit is. to 6 weeks for processing of this form. Th	to complete and sign this form. If an agentereafter, you can view or print the accept	nt is signing o ed document	r entering information, please at:
https://www.d	wr.state.co.us/Tools/WellPermits Signature of DWR staff indicates a	acceptance as a Change in Owner Name a	nd/or Mailing	Address.
		For Staff Use Only		
Staff Signatu	re		Date	
Form No.

GWS-25

((8

		WELL PER		295655	
PPLIC	ANT	DIV. Z		DES. BASIN	
	UNION MILLING COMPANY LLC PO BOX 620490 LITTLETON, CO 80162-			APPROVED WELL LAKE COUNTY NW 1/4 NE Township 9 S Ra DISTANCES FRO 379 Ft. from Nor 1333 Ft. from Eas	<u>LOCATION</u> 1/4 Section 33 ange 80 W Sixth P.M. <u>M SECTION LINES</u> th Section Line st Section Line
	(303) 947-7837			Easting: 384988	Northing: 4343027
ERM	I TO CONSTRUCT A WELL ISSUANCE O	F THIS PERMI	T DOES NOT	CONFER A WATE	RRIGHT
		CONDITIO	NS OF APPR	OVAL	
n n 2) T b 3) A 3) A 4) T k 5) F V 6) L 6) L 6) L 7) T 7 7) T 8) T 7 9) V 6	o injury will occur to another vested water r he construction of this well shall be in comp een granted by the State Board of Examine pproved pursuant to CRS 37-92-602(3)(b)(nd/or water quality sampling. 'his well must be equipped with a locking ca ept capped and locked at all times except of Records of water level measurements and w Vater Resources upon request. Upon conclusion of the monitoring program Rules. A Well Abandonment Report must b The owner shall mark the well in a conspicu- tecessary means and precautions to prese This well must be constructed by or under th Construction Rules. If non-standard constru- prior to well construction. A Well Construction and Test Report (Form well. For non-standard construction, the re- description of the grouting type and interval The well shall be constructed not more than	ight or preclude an pliance with the Wa ers of Water Well C (I) for uses as desc ap or seal to preve- during sampling or water quality analys the well owner sha be completed and s rous place with the rve these markings he supervision of a uction is anticipate of GWS-31), including port must include a l. n 200 feet from the	other owner of a ater Well Constru Construction and I cribed in CRS 37- nt well contamina measuring. ses shall be main all plug this well in submitted to the D well permit numb s. hicensed well dril d, a variance requ an as-built drawing a location specifie	vested water right from a ction Rules 2 CCR 402- Pump Installation Contra 92-602(1)(f). Use of this tion or possible hazards tained by the well owner accordance with Rule accordance with Rule bivision of Water Resour- ber and name of aquifer ler or other authorized in uest must be submitted bust be submitted by the g showing details such a d on this permit.	2, unless approval of a variance has actors in accordance with Rule 18. a well is limited to monitoring water level as an open well. The well must be and submitted to the Division of 16 of the Water Well Construction rees within 60 days of plugging. as appropriate, and shall take individual according to the Water Well in accordance with Rule 18 and approve individual authorized to construct the as depth, casing, perforated zones, and
	NOTE: Issuance of this permit does not gu- pursuant to Rule 14.2 of the Water Well Co- shall not be converted to a production well. monitoring well, recovery well for remediati NOTE: This permit will expire on the expira (GWS-31) must be submitted to the Division may be available. Contact the DWR for add http://www.water.state.co.us NOTICE: This permit has been approved so determined from GPS coordinates provider Range and P.M. were determined from UT the right to appeal the issuance of this per- to the State Administrative Procedures Act	arantee that this we onstruction Rules (2 (Upon obtaining a on of the aquifer, o tion date unless th on of Water Resourd ditional information subject to the follow d by the applicant. M coordinate value mit, by filing a writt t. (See Section 24-	ell can be convert 2 CCR 402-2), mo a permit from the or a dewatering sy e well is construc- rces to verify the or or refer to the ex- ving changes: The The distances fr es provided with t en request with th 4-104 through 10	ted to a production well onitoring holes construct State Engineer, a monit stem for dewatering the ted by that date. A Well well has been construct tension request form (G a distances from section om section lines, quarte he permit application. Y his office within sixty (60 6, C.R.S.)	under a future permit. Additionally, ted pursuant to a monitoring hole notice oring hole may be converted to a aquifer.) Construction and Test Report ed. An extension of the expiration date WS-64) available at: I lines, quarter/quarter, and quarter were r/quarter, quarter, Section, Township, You are hereby notified that you have) days of the date of issuance, pursuant

APPROVED CRF

Receipt No. 3666028B

State Engineer

DATE ISSUED 09-11-2014 EXPIRATION DATE

09-11-2016

			For Office Use Onl	У	
Form	OFFICE OF THE STATE ENGINEER				
NO.	1313 Sherman St., Room 821, Denver, CO 80203				
GWS-12 01/2020	Main: (303) 866-3581 OWR				
01/2020	Website: dwr.colorado.gov				
	Email to: dwrpermitsonline@state.co.us				
	REGISTRATION OF EXISTING WE	g form			
NAME &	CONTACT INFORMATION OF WELL OWNER	R:			
Name(s)	CSK MILLING COMPANY LL	4			
Mailing A	ddress RA BERGEN MOUNTAIN R	D			
City:	State: CO	Zip Code:			
Phone No	b. with area code Email	MSN WOM			
720-	AIZ-BBSB GRAIPHACIS		antional): NA	117-Su	1
WELL LO	CATION County: LAKE	ven Nam		CO	80461
138	15 US HIDHWAY CA	LEADV	(City)	(Sta	te) (Zip)
	(Address)		80_ IT E. or 15	W. 61	P.M.
<u>NW</u> 1/4	4 of the <u>NE</u> 1/4, Sec <u>JJ</u> , IWP [1/4, Sec JJ], IWP [1/4, Sec	Line, 1333	Ft. 🕅 E. (or 🔲 W.I	_ine.
Distance	from Section Lines Fully N.OF		R THE SUBJECT	PARCEL	
	ATTACH A COPY OF A COP	KENT DEEDTO	Lot	Block_	Filing/Unit
Subdivisio	on Name <u>NA</u>	following GPS settin	nas are required:	3	84988
Optional: Format m	GPS well location information in UTM format. The sust be UTM . Units must be in meters. Datum mus Zone 12 or K Zone 13	t be NAD83 . Unit m	nust be set to true	Northing 4	34027
Was GPS	S unit checked for above items? 🗖 YES 🕅 NO		A-7-50	E AAAD	in its AS
The well	has historically been used for the following purpose	(s): QUADIEDU	Y WATER	Sampe	
MAN	NATED BY CORMS PERMI	T MI99D	-05		
				1 1 7	Δ.
Water firs	st used beneficially by the original owner for the abo	we described purpos	ses on (mm/dd/yyyy) 09 1 2	.014
	the filting the 53 feet				
The total	depth of this well is lect.	NOT	TESTED, W	ATER P	MPED TO
The pum	ping rate of this well is $\underline{N/A}$ gallons p	er minute. Cou	ELT SAMP	E ONL	UMPED FOR
The ever	and annual amount of water diverted is	acre-feet.	APROX 450	1 A TIME	> PERYEAR
The aver		it.		Souare feet	
The law	n and garden irrigated (watered) by water from this v	well is		oqua o ros	
		Number			indemonstration to
The mak	king of false statements herein constitutes perjury in	the second degree,	which is punishable	e as a class 1 m	isoemeanor pursuant to
CRS2	3-3-104(13)(a). I have read the statements herein,	know the contents the	hereof, and state th	at they are true	to my knowledge.
0.11.0.2	noter nome of Wall Owner(s)	Print Name and Til	tle of Well Owner(s)	1	Date (mm/dd/yyyy)
Sign or e	SUIGE USING OF ANON CAMPER (2)				
		For Office Use Onl	у		
WE					
WR					
CWCB					
AQUA					sin MD
MYLAR			Div	_ WD Ba	

WELL PERMIT NUMBER 295654

CJK MILLING COMPANY LLC MONITORING WELL – MW3NE

FORM NO. GWS-31 04/2005	W STATE OF COL 1313 Sherman St. Phone – Info (303) Fax (303) 866-358	ELL CONST ORADO, OFF , Room 818, Der 866-3587 Main 9	RUCTION A CE OF THE 3 over, CO 80200 a (303) 866-358 http://ww	ND TEST F STATE ENG 3 31 w.water.state.c	REPORT NEER 20.us	For Office Use Only
. WELL PER	MIT NUMBER:	295654				
NAME OF V	VELL OWNER:	Union	Milling (Company L	LC	
MAILING AD	DDRESS:	P.0.Bo	x 620490		001.00	-
CITY: Li	ttleton	STAT	E: CO		ZIP CODE: 80162	
TELEPHON	E NUMBER: () 303-94	7-7837			
DISTANCES SUBDIVISIO	TION AS DRILLED S FROM SEC. LINE	<u>S: SE 1/4,</u> S: <u>Hole</u>	<u>SE</u> 1/4, S ft. from [e # 2	ec. <u>28</u> , 1] N or [] S s	wp9 [] N or [] ection line and , LOT, BLO	CK FILING (UNIT) Owner's Well Designation:
Optional GI must be met	PS Location: GPS ters, Datum must b	Unit must use e NAD83, Unit	must be set	to true N,	Zone 12 or 🔀 Zone 13	Easting: 385077
STREET AD	DRESS AT WELL	LOCATION:	13815 11	yllway 24		Norumig. contest
. GROUND S	URFACE ELEVATI	0N		74	feet DEPTH COL	MPLETED 66 feet
DATE COM	PLETED UCT 1	+, 2014 1	UTAL DEPTR	1 / 4	6. HOLE DIAM (in.)	From (ft) To (ft)
Denth	Type	Grain Size	Color	Water Loc.	9	0 74
Jopui	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		6 81 10 2000			
	an a					
					7. PLAIN CASING:	
					OD (in) Kind	Wall Size (in) From (ft) To (ft)
0 to 74	glacial fill				7 steel	-188 + 3 - 50
	and the second				<u>5 9/10 Steel</u>	.100 .11 .00
				+	PERFORATED CASIN	G. Screen Slot Size (in):
				60-	5 $1/2$ stain	ss steel screen 56 66
		Carriers and a state of the sta		66		
		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
	erenterine en en der en en erenteren er ferenenen					
					8. FILTER PACK:	9. PACKER PLACEMENT:
filled b	ottom 8 feet	: with gra	vel, 66	to 74 ft	Material	Type
14 (50#)	bags of 8/1	silica s	and, 53	10 00 11		Depth
2 5 gal	buckets 1/4	Dentoni	e periec	5 4500 5		BD
				1	Material Amount	Density Interval Placement
Zomarks:				Lan. an and an	cement 12 ba	gs 6 to 1 4to 25 poure
		a ya da kana kana kana kana kana kana kana				
1. DISINFEC	TION: Type			НТН	Amt. Used	
2. WELL TES	T DATA: Check	box if Test Da	ita is submitte	ed on Form N	umber GWS 39 Suppler	mental vvell Test.
ESTING ME	THOD bail	er	Contraction of the second s			E
Static Level Pumping Leve	<u>57</u> ft. Dat Ift. Dat	e/Time measu e/Time measu	red:0c1	tober 14,	2014, Production I Test Length	Rate
Remarks:			0	and the	are true to my knowledge	This document is signed and certified in
3. I have read the cordance with lead to a cordance wi	he statements made h Rule 17.4 of the Water 8(1)(e), C.R.S., and is	erein and know Well Constructi punishable by fi	on Rules, 2 CC nes up to \$500	R 402-2. [The and/or revoc	filing of a document that c ation of the contracting lice	ontains false statements is a violation of nse.]
Company Nan	ne: Golden E	agle Dril	ling Cor	p.	Phone: () 970-	668-3564 License Number: 388
Mailing Addres	SS: 7 P.O. Box	A75; Fris	co, C0	80443		Date
Signature:	he with	ullar	Print Na	me and Title	Joe W. Shelt	ton, Pres. 1014
	4					

Form No. GWS-11 08/2016	COLORADO DIVISIO DEPARTMENT OF 1313 Sherman St., S (303 dwrpermitso	N OF WATER RESOURCES NATURAL RESOURCES Ste 821, Denver CO 80203) 866-3581 online@state.co.us	For Office Use Only					
	CHANGE IN OWNER NAME	E/MAILING ADDRESS						
INCOMPLETE,	PRIOR TO COMPLETING THIS FORM, SEE II POOR QUALITY, OR ILLEGIBLE FORMS CAN	NSTRUCTIONS ON REVERSE SIDE NNOT BE PROCESSED AND WILL BE RETURNED						
Name, address	s and phone number of person claiming ov							
Name(s): <u>(</u>	JK MILLING COMPAN	y uc						
Mailing Addres	Mailing Address: 33084 BERGEN MOUNTAIN RD.							
City, St. Zip: _	City, St. Zip: EVERLERN, CO 80439							
Phone: (725	Phone: (720) 412-5838 Email: GENIPPAQ MSN. COM							
Well Permit Number: 295654 Receipt Number: 3666028A Case Number (optional): WELL LOCATION: County: LAKE Well Name or # (optional): Mw3 - NE 13815 US H154049 Z4 LEAD/100E Co 80460 Street Address at Well Location City State Zip Check if well address is same as owner's mailing address City State Zip SE 1/4 of the SE 1/4, Sec. ZB , Township O N. or XI S., Range D E. or XIW., 6TH P.M. Distance from Section Lines: ZOB Ft. from N. or XI S., Line, TOIL Ft. from XI. Line. Subdivision Name (if applicable): N/A , Lot, Block, Filing/Unit								
and state that	they are true to my (our) knowledge. This	Please print the Signer's Name & Title	Date					
	- it is new owner	to complete and sign this form. If an agent is sign	ning or entering information, please					
It is the responsibility of the new owner of this well permit to complete and sign this form. If an agent is ag								
- ALDORITON AND A	Signature of DWR staff indicates a	acceptance as a Change in Owner Name and/or M	ailing Address.					
		For Staff Use Only						
Chaff Classifier		Date						
Stan Signatur	θ.							

Form No.

GWS-25

APPLICANT

C 8

=o GV	rm N VS-2	No. OFFICE OF THE ST COLORADO DIVIS 818 Centennial Bldg., 1313 Sherm (303) 865-3581	TATE ENC ION OF W an St., Denver, C	SINEER ATER RE	ESOURCES		
		(303) 000-0001					LIC
		그는 말을 알고 있다.	WELL PE	RMIT NUMBE	ER295654		
AF	PLI	CANT	DIV. 2	WD 11	DES. BASIN	MD	
		UNION MILLING COMPANY LLC PO BOX 620490 LITTLETON, CO 80162- (303) 947-7837			APPROVED WEL LAKE COUNTY SE 1/4 SE Township 9 S Ra DISTANCES FRO 208 Ft. from Sou 791 Ft. from Eas UTM COORDINA Easting: 385067	L LOCATION 1/4 Section ange 80 W S M SECTION L uth Sectio st Sectio TES (Meters,Z Northing	n 28 ixth P.M. <u>INES</u> n Line n Line <u>one:13,NAD83)</u> g: 4343204
PI	ERN	IT TO CONSTRUCT A WELL				RRIGHT	
		ISSUANCE O		ONS OF APP	ROVAL		
1 2 3) :) ;)	This well shall be used in such a way as to on no injury will occur to another vested water r The construction of this well shall be in com been granted by the State Board of Examine Approved pursuant to CRS 37-92-602(3)(b)(and/or water quality sampling. This well must be equipped with a locking c	cause no material ight or preclude a pliance with the V ers of Water Well (I) for uses as des ap or seal to prev	injury to existing nother owner of Vater Well Const Construction an scribed in CRS 3 ent well contami	water rights. The issuan a vested water right from ruction Rules 2 CCR 402- d Pump Installation Contra 7-92-602(1)(f). Use of this nation or possible hazards	ce of this permit d seeking relief in a -2, unless approva actors in accordan s well is limited to s as an open well.	oes not ensure that civil court action. I of a variance has ce with Rule 18. monitoring water levels The well must be
+	•)	kept capped and locked at all times except	during sampling o	r measuring. vses shall be ma	intained by the well owner	r and submitted to	the Division of
	5)	Water Resources upon request. Upon conclusion of the monitoring program	the well owner sh	hall plug this well	in accordance with Rule	16 of the Water W	ell Construction
	7)	Rules. A Well Abandonment Report must t	be completed and lous place with th	e well permit nur	mber and name of aquifer	as appropriate, ar	nd shall take
	8)	necessary means and precautions to preserve these markings. This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved					
	9)	prior to well construction. A Well Construction and Test Report (Form GWS-31), including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a dependence the grouting type and interval.					
	10)	 description or the grouting type and interval. This well shall be constructed not more than 200 feet from the location specified on this permit. NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.) NOTE: This permit will expire on the expiration date unless the well is constructed by that date. A Well Construction and Test Report (GWS-31) must be submitted to the Division of Water Resources to verify the well has been constructed. An extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us NOTICE: This permit has been approved subject to the following changes: The distances from section lines, quarter/quarter, and quarter were determined from GPS coordinates provided by the applicant. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures 					
		Act. (See Section 24-4-104 through 100) C			Λ		

APPROVED CRF

Receipt No. 3666028A

DATE ISSUED	09-11-2014
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State Engineer

EXPIRATIONDATE

09-11-2016

Earner STATE OF COLORADO	For Office Use Only
No. OFFICE OF THE STATE ENGINEER	
GWS-12 1313 Sherman St., Room 821, Denver, CO 80203	
01/2020 Main: (303) 866-3581	
Email to: dwrpermitsonline@state.co.us	_
REGISTRATION OF EXISTING WELL	
Review form instructions prior to completing form	-
NAME & CONTACT INFORMATION OF WELL OWNER:	
Name(s)	
Mailing Address	
33084 BERLIEN MOUNTAIN RD	
City: State: Zip Code:	
EVEDGREED Email	
720 - 412 - 8838 GKNIPPA @ MSN . Com	
WELL LOCATION County: LAKE Well Na	ame(optional): MW3-NE
12:21E LIS INITIAN 7A LEADY	ILLE CO 80461
(Address)	(City) (State) (Zip)
SE 1/4 of the <u>SE 1/4, Sec</u> Twp [N. or KIS., Range	e 80_ □ E. or 🔯 W., 61# P.M.
Distance from Section Lines 208 Ft. N.or X S. Line, 791	_ Ft. 🔲 E. or 🔯 W. Line.
ATTACH A COPY OF A CURRENT DEED F	OR THE SUBJECT PARCEL
Subdivision Name N/A	Lot Block Filing/Unit
Subdivision Name	tings are required: Fasting 385067
Format must be UTM. Units must be in meters. Datum must be NAD83. Unit north.	must be set to true
Was GPS unit checked for above items? TYES 🔀 NO	Nording
The well has historically been used for the following purpose(s): QUARTE	DLY WATER SAMPLING AD
MA DATES BY CORMS PERMIT MI	990-057
MADDA(ED DI COLO	
Water first used beneficially by the original owner for the above described purp	oses on (mm/dd/yyyy) 09/11/2014
The total depth of this well is feet.	TELED WATER PUMPED TO
The pumping rate of this well is NIA gallons per minute.	ET SAMPLE ONLY
	APROX 60 GALLON PUMPED FOR
The average annual amount of water diverted is $arphi$ acre-feet.	EACH TEST / ATIMES PER YEAR
the second divertexed) by water from this well is	Acre or Square feet.
The lawn and garden irrigated (watered) by water from this week is	
NUT IN THE REPORT OF THE REPORT	
Num	the transient she as a place 1 misdemeanor pursuant to
The making of false statements herein constitutes perjury in the second degre	e, which is punishable as a class 1 misdemeanor pursuant to
The making of false statements herein constitutes perjury in the second degre C.R.S. 23-3-104(13)(a). I have read the statements herein, know the contents	e, which is punishable as a class 1 misdemeanor pursuant to thereof, and state that they are true to my knowledge.
The making of false statements herein constitutes perjury in the second degre C.R.S. 23-3-104(13)(a). I have read the statements herein, know the contents Sign or enter name of Well Owner(s) Print Name and	e, which is punishable as a class 1 misdemeanor pursuant to thereof, and state that they are true to my knowledge. Title of Well Owner(s) Date (mm/dd/yyyy)
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