July 21, 2016

Ms. Davena Crosley
Permit Lead
Mining Act Reclamation Program ("MARP")
New Mexico Mining and Minerals Division
Wendell Chino Building
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Response to Site Wide Closeout Plan Update Application Response, Permit Modification 16-1, Permit No. TA002RE, El Grande Mine Dated June 7, 2016

Dear Ms. Crosley:

This letter is written to respond to several items remaining in the review of the above-referenced application for the El Grande Mine. In this response, we are taking the liberty of reiterating the issues as expressed in your letter dated June 7, 2016.

Our responses to the issues are provided below, with the issue stated first and followed by the response:

6. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response). Please see comment 11 regarding Dicaperl's proposed test plot study.

RESPONSE: Dicaperl agrees to adhere to the guidelines given regarding a work plan for the Exploration of Area 3A. A work plan will be submitted to MMD no later than 60 days after approval of Modification 16-1 Permit TA002RE and shall construct test plots within 1 year of approval of Modification 16-1 Permit TA002RE.

7.
(b)Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response).

RESPONSE: Dicaperl will submit a Quality Assurance/Quality Control (QA/QC) plan to MMD for approval a minimum of 6 months prior to reclamation of the waste dumps to assure a minimum of 12 inches of Obsidian-Rich Perlite covered with a minimum of 12 inches of Raton rock outcrop-Orejas material is placed over all waste dumps containing Super Sacks.
All chemical and textural analysis of the soil materials shall be submitted to MMD no later than 60 days after approval of Modification 16-1 to Permit TA002RE.

10. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response). Please see comment 7b.

RESPONSE: Dicaperl will follow the procedures outlined in comment 7b.

11. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response). As a condition of Modification 16-1 to Permit TA002RE, MMD will require Dicaperl to submit a detailed work plan, for the 3A Exploration Area Test Plot Study to assess vegetation success using combinations of obsidian-rich perlite, Raton-rock outcrop- Orejas cover, and amendments. Dicaperl shall submit the work plan to MMD for approval no later than 60 days after approval of Modification 16-1 to Permit TA002RE and shall construct the test plots within 1 year of approval of Modification 16-1 to permit TA002RE.

RESPONSE: Dicaperl agrees to adhere to the guidelines given regarding a work plan for the Exploration of Area 3A. A work plan will be submitted to MMD no later than 60 days after approval of Modification 16-1 Permit TA002RE and shall construct test plots within 1 year of approval of Modification 16-1 Permit TA002RE.

13. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response). Please see comment 7b.

RESPONSE: Dicaperl will follow the procedures outlined in comment 7b.

14. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response). Please see comment 7b, and comment 11

RESPONSE: Dicaperl will follow the procedures outlined in comment 7b and 11.

16. Please update the Buildings and Facilities demolition plan and reclamation schedule and cost estimate based on the plan provided to MMD via e-mail on May 18, 2016.

RESPONSE: The Work Plan submitted to MMD on May 18, 2016 describes the demolition work and equipment removal currently being completed at the El Grande Mine. The active work will not affect or change the reclamation demolition costs for the foundation and building portion at El Grande. The current work being completed includes equipment removal and demolition of the structures to the top of the silos. The costs associated with the current work will be completed in 2016 and will not change the closure bond amount. The proposed closure costs accounts for the remaining portion of the work to demolish the

mill and associated equipment. The table below Equipment Removal List represents the current equipment removal and work schedule at the El Grande Mill. The active work should take approximately 12 weeks, with completion mid-August 2016.

Equipment Removal List		
Location	**Equipment**	**Quantity**
[1]4th Floor of Mill	Elevator	4
	Belt Conveyor	2
	Motors	6
	Gearboxes	2
	Floor Grating	-
[1]3rd Floor of Mill	Tyler Screens	6
	Motors	12
	Baghouse	1
	Controls	1
	Raymond Mill Baghouse	1
[1]2nd Floor of Mill	Air Separator	1
	20 Hp Motor	1
	Tyler Screens	6
	Motors	12
[1]1st Floor of Mill	Conveyor Belting	1
	Screw Conveyors	7
	75 Hp, 1800 rpm Motor	2
	60 Hp, 1800 rpm Motor	2
	250 Hp, 1200 rpm Motor	1
[1]Ground Level	250 Hp, 1200 rpm Motor	1
[2]All Floors	Wiring, piping, electrical boxes	-
	Roofing and Siding	-
[3]Overall	Building Structures	-

**There are no additional associated costs with the equipment removal due to equipment being recycled or salvaged for metal. All work is performed internally by Dicaperl so no additional costs are incurred.*

[1]*The removal of the equipment will take approximately 3 weeks*
[2]*The removal of wiring, piping, electrical boxes, roofing and siding will take approximately 2 weeks.*
[3]*The demolition of structures will take approximately 3 weeks*

17. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response). MMD will inspect the proposed reference areas prior to approval of Modification 16-1.

RESPONSE: Dicaperl will arrange a site visit to allow MMD to inspect the proposed reference areas for final approval.

18. Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response).

Please include the reclamation costs for earth work and revegetation for Dump areas 1A, 1B, 1C, and 1D and Exploration areas 3B, 3C, 3D, 3E, and 3F. Dicaperl states that "Request for bond release for certain areas will be included under separate cover."

NMAC 19.10.12.1204 states:

"The permittee shall maintain the financial assurance in effect, except as reduced pursuant to 19.10.12 NMAC, until such time as the director releases the financial assurance pursuant to 19.10.12.1210 NMAC. For areas to be revegetated, the director shall retain the amount of financial assurance necessary for a third party to re-establish vegetation for a period of 12 years after the last year of augmented seeding, fertilizing, or irrigation, unless a post-mining land use is approved by the director that does not require revegetation. Interseeding to establish diversity shall not be considered augmented seeding. Interseeding may not be performed within the last three years of the liability period. "

MMD requires FA to be maintained on all reclaimed areas until financial assurance has been released as required by NMAC 19.10.12.1210. Even though the financial assurance for the update site-wide closeout plan must include areas that have previously been reclaimed at the El Grande Mine, the release of financial assurance has been processed for other mines in a timely fashion (i.e., within 90 days). In addition, recent changes to the Mining Act Rules allows mine operators to apply for financial assurance release more than once per calendar year.

RESPONSE: The reclamation costs have been revised to include the revegetation costs for the Reclaimed Dumps 1A, 1B, 1C and 1D and the Reclaimed Exploration Areas 3B, 3C, 3D, 3E

and 3F. All other costs associated with regrading, cover and scarifying those areas have already been accounted for in the existing bond due to completion of those reclamation activities. See attached revised closure cost sheets for the breakdown of revegetation costs. The table below represents the updated closure costs with an overall cost of $923,807.

EL Grande Mine Reclamation Costs	
Dump Sites (1Eb, 1Ec, 1E, 2A)	$160,757
Dump Sites (1A, 1B, 1C, 1D) – Revegetation Only	$14,002
EXP Area 3A	$54,685
EXP Area (3B, 3C, 3D, 3E, 3F) – Revegetation Only	$2,825
Quarry	$118,630
Roads	$7,072
Facilities (Earthwork and Reveg)	$2,931
Facilities (Demo and Removal)	$44,135
Monitoring	$12,010
Mob/Demob	$21,064
Construction Management	$122,342
Indirect Costs	$203,052
TOTAL	$763,505
Inflation at 3.0% for 5 years	$885,112
Dump 1Ea	$38,695
TOTAL	$923,807

Cost Estimate Comments

19.

(a). Dicaperl's response is acceptable to MMD (addressed in February 5, 2016 Application Response).

(b). Please provide unit cost and references for labor.

Labor Rates and Equipment Costs were provided in the July 4, 2015 Dicaperl Minerals Corp El Grande Mine Permit No. TA002RE Permit Modification Application Response. However, the Closure Cost Estimate submitted in the February 5, 2016 Application Response do not appear to use the same rates. Please provide the Labor Rates and Equipment Cost references for the revised Cost Estimate and ensure that standard labor rates and equipment costs for a 3rd party contractor are used in all calculations.

There are large discrepancies between the hours reported in the "Time to Complete Reclamation" tables submitted on July 4, 2015 and February 5, 2016. Additionally, the total costs reported for completing the work appears to be inversely related to the required number of hours reported when comparing the July 4, 2015 and February 5, 2016 Cost Estimates. Please provide the basis for the estimated hours required to complete reclamation work.

In the February 5, 2016 Application Response, the estimated Times to Complete Reclamation reported in the table "El Grande reclamation Haul Distance & Time to Complete" in response to MMD comment #19 (pg. 15) differ substantially from the Reclamation Schedule provided in Appendix D. Please revise the Closeout Plan and Cost Estimate to ensure that the time and cost estimates are congruent.

El Grande Reclamation Haul Distance & Time to Complete			Standard Reclamation Cost Estimator		El Grande Reclamation Schedule
	Time to Complete Reclamation July 4, 2015	Time to Complete Reclamation Feb 5, 2016	SRCE July 4, 2015	SRCE Feb 5, 2016	Appendix D Feb, 5 2016
Exploration	-41 hours	-3 months (360 hours)	41 Total dozer hours	372 Total dozer hours	8 months
Roads	- 10 hours	-3 weeks (90 hours)	IO hours	9 hours	
Waste Dumps	-372 hours	- I year (1440 hours)	394 Total dozer, fleet, nppmg hours	204 Total dozer, fleet, ripping hours	
Quarry	- 130 hours	- I year (1440 hours)	130 dozer,	78 dozer, fleet hours	
Demolition of Foundation & Buildings	-45 hours	-8 months (960 hours)	?	?	4 months

RESPONSE: The El Grande Reclamation Time to Complete & Haul Distance Table and Reclamation Schedule have been revised accordingly. The table below represents the reclamation time to complete regrading, cover, scarifying and vegetation. The Reclamation Schedule represents the overall reclamation time to complete all activities at El Grande (see attached timeline). The demolition schedule of the El Grande Mill reflects remaining work to be completed and does not include the reclamation work currently taking place on site. All updated cost sheets are attached for labor, equipment, and material rates.

EL Grande Reclamation Time to Complete & Haul Distance		
	Time to Complete Reclamation	**Haul Distance (Varies – Averages Assumed)**
Exploration	~2.5 months (372 hours)	-
Roads	~1 weeks (9 hours)	-
Waste Dumps	~1.5 months (200 hours)	~1,800 feet to ORP (Dump 1Ea only) (~1592 feet to topsoil)
Quarry	~1 month (131 hours)	~0 feet to ORP (~1350 feet to topsoil)
Demolition of Foundation & Buildings	~1 week (3 hours)	-

*Note Roads and Foundation and Buildings will not have (Raton-rock outcrop-Orejas) topsoil added as cover.
*Reclamation hours only include regrading, cover, scarifying and vegetation

The Reclamation Schedules were updated accordingly with the Mill Reclamation being completed in approximately 4.5 months and the waste dump areas, Quarry, exploration areas, and the roads completed in approximately 8 months. The reclamation schedules include all reclamation tasks needed to close each facility (schedules attached).

(d). Please revise the Closure Cost Estimate to include materials costs for seeding and mulching, if applicable, for the entire reclamation area. Seed Mix "User Mix l" does not have a cost associated with it. Also please ensure that labor and equipment costs associated with revegetation are included.

Please revise the reclamation monitoring costs to include all areas and provide the spreadsheet(s) supporting these calculations.

RESPONSE: An updated Seed Mix has been provided from Curtis & Curtis, INC located in Clovis, New Mexico (see attached). These costs have been incorporated into the revised closure costs for EL Grande. Areas associated with vegetation such as Exploration Areas, Waste Dumps, Roads, Quarry and Buildings and Structures reflect the costs associated with 'User Mix 5' which relates to the updated Seed Mix. All updated cost sheets are attached.

Additional MMD Comments (to Dicaperl's Response)

21. In the February 5, 2016 Application Response, the estimated Times to Complete Reclamation reported in the table " El Grande reclamation Haul Distance & Time to Complete" in response to MMD comment# 19 (pg. 15) differ substantially from the Reclamation Schedule provided in Appendix D (refer table in comment 19c). Please explain these discrepancies.

RESPONSE: The El Grande Reclamation Haul Distance & Time to Complete table only represented the equipment time needed to complete grading, cover, ripping and scarifying. The table has been updated and is shown above in Response 19(b). The Reclamation Schedule provided in Appendix D represented the overall reclamation tasks needed to complete closure of the waste dumps, Quarry, roads, exploration areas and mill buildings and structures. A revised Reclamation Schedule is attached.

22. MMD received notification on May 18, 2016 that Dicaperl would begin demolition of the Mill facility on May 23, 2016. The scope of work includes removal of items that will be reused at other facilities, removal of infrastructure for salvage and recycle value, removal of siding and roofing, and removal of support structure down to the top of the silos. Please re-calculate the facilities demolition, removal, and revegetation costs to reflect this work if necessary.

In the July 4, 2015 Application Response the Closeout Costs related to facility demolition and revegetation was $129,777.00, and facilities removal was $191,761.00 fora total cost related to facilities of$321,493.00. In the February 5, 2016 of $49,198.00 for facilities demo and removal ($44,135.00) and earthwork and revegetation ($5,063.00). This is a difference of $272,295.00. Please recalculate the cost of demolition, removal, earthwork, and revegetation of the El Grande mill and attendant facilities. Please include labor rates, equipment costs, SRCE Closure Cost Spreadsheets and other supporting documentation for the updated calculation.

Please adjust the Construction Management & Support calculations to reflect the estimated 12 months for reclamation or explain the duration of 6 months used in the calculation. Please ensure that all calculations for reclamation costs, estimates for

time to complete reclamation activities, and the reclamation schedule are in concurrence.

RESPONSE: The current reclamation work being conducted on site has no effect on changes to the proposed reclamation costs for the demolition, removal and vegetation of the Mill and associated buildings. The reclamation work currently in progress is described above in Response 16. This work does not alter the closure cost amount since the work is actively being completed and only the remaining work for the future has costs associated with closure.

In the July 4, 2015 Application Response the Closeout Costs associated with demolition, removal and revegetation included a previous quote that was provided with the 1998 Closeout Plan. After closer review the previous quote for demolition and equipment removal was revised to reflect current closure costs based on 2015 rates. The proposed closure cost for demolition, equipment removal and revegetation is $47,066 (see attached closure cost sheet).

In addition, please address the following agency comments

23. Office of the State Engineer. Please address agency comments provided for Modification 16-1. Please see attached OSE review of Dicaperl's response dated April 29, 2016, and original OSE comments dated March 9, 2015.

RESPONSE: See attached Response to OSE Letter for complete clarification to the Office of State Engineers.

24. New Mexico Environment Department Air Quality Bureau. Dicaperl's response is acceptable to the agency (addressed in February 5, 2016 Application Response).

25. Department of Cultural Affairs Historic Preservation Division. Dicaperl's response is acceptable to the agency (addressed in February 5, 2016 Application Response).

As always, if you have any questions regarding any of the materials contained within or if you have any further questions regarding this submittal, please do not hesitate to contact me at (602) 281-7878.

Sincerely,

Hillary Falgiano
Project Manager

Encl.
cc. Mr. Rocky Torgrimson
Mr. Allen Norris

Dicaperl Minerals Corp.

4674 State Hwy 285

Antonito, Co 87820

Response to OSE Letter

1) The updated closeout plan does not mention the quantity of water, if any, necessary for reclamation. For example, some reclamation activities may require dust control or other uses of water for construction. Dicaperl should provide an estimate of water use and source of water.

Response: It is unknown what volume of water is required for reclamation as the use would only be dust control. No other reclamation activities require the use of water at El Grande. When dust control is needed the source of water would either be the Dicaperl Minerals Antonito well or the Village of Tres Piedras system.

2) The updated closeout plan does not address the disposition of the well RG-53397. In the NMOSE file for RG-53397, it's unclear if this well was ever drilled because there is no well record, yet there were some meter readings submitted to NMOSE. Some wells are plugged, ownership transferred or some other final disposition. Some of these actions require approval of NMOSE Water Resources Division District 6 in Santa Fe. If the well was drilled, Dicaperl should provide a well record and clarify final disposition of well.

Response: There are no records of a well being drilled on the Dicaperl Minerals El Grande Mine property and no existing well has been found. All water for bathrooms was trucked in from the Antonito Plant and pumped into the water tank located at the plant office. It is not known where any meter readings would have come from unless they were erroneously reported for the El Grande Mine using another Dicaperl meter associated with the Socorro or Antonito facility.

3) In the updated closure plan, the open pit (approximately 76 acres), will be used to capture storm water for evaporation or infiltration. Dicaperl should contact NMOSE District 6 for discussion on the potential permitting of impoundment, which may be required for non-jurisdictional impoundments pursuant subsection 19.16.2.15 NMAC (excerpt of Regulations provided below).

Response: The deepest sediment basin at the El Grande mine has a depth ranging between 12 and 15 feet and covers approximately 0.42 acres. The narrowest section of the basin wall is 88 feet wide and it is located on the south side where the mine road passes at an elevation of 8,275 feet which is the approximate elevation of the spillway. This lower 1E sediment basin is calculated to have a capacity of approximately 1.23 acre-ft. while the sediment basin above, upper 1E, has an estimated capacity of 0.057 acre-ft and the overflow for that basin is at an approximate elevation of 8,280 feet.

The sediment basins are sized accordingly there would be no build up or impoundment of water that will remain in the basins for more than the 96 hours.

While it has been said that the quarry area will work as a basin this statement is incorrect as the quarry is a very fractured volcanic glass and there are no locations in the mine where water collects. Instead the meteorological moisture percolates naturally through the formation, a process that has been ongoing since the deposit came into existence approximately 4.7 million years ago.

One requirement of the MMD is to design sediment basins to hold runoff from a 100-year rain event along with being removed after reclamation requirements are met. The El Grande site follows these guidelines and no water is collected at any location on the mine property for any reason other than to allow the solids to settle out to prevent contamination of the Arroyo Aguaje de la Petaca as well as our neighbors downstream of the mine.

CURTIS & CURTIS, INC.

4500 North Prince, Clovis, New Mexico 88101
PH: 575-762-4759 FAX: 575-763-4213

Irrigated Pasture Grasses
Mountain Pasture Grasses
Native Pasture Grasses

Yard and Playground Grasses
Golf Course Grasses
Alfalfa/Clovers

PRICE QUOTATION

TO:	Allen Norris	DATE:	July 12, 2016
ATTENTION:		SALESPERSON:	Lane Drake
PHONE:		SHIPPING DATE:	As Directed
EMAIL:	anorris@dicaperl.com	FOB:	Clovis
PROJECT:	Seed Blend	TERMS:	30 Days Net

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DESCRIPTION **PRICE**

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Custom Seed Mix: $25.83/PLS #

COMMON NAME	BOTANICAL NAME	PERCENT/PLS#
Blue grama	*Bouteloua gracilis*	12
Sideoats grama	*Bouteloua curtipendula*	8
Western wheatgrass	*Pascopyrum smithii*	15
Sand Dropseed	*Sporobulus cryptandrus*	8
Bottlebrush Squirreltail	*Elymus elymoides*	10
Rocky mountain Penstemon	*Penstemon strictus*	4
Purple prairie clover	*Dalea pururea purpurea*	4
Western yarrow	*Achillea millefolium var. occidenta*	5
Lewis flax	*Linum lewisii*	8
Mexican hat	*Ratibida columniferea forma pulcherrima*	5
Desert marigold	*Baileya multiradiata*	5
Desert Globemallow	*Sphaeralcea munroana*	3
Four-wing saltbush	*Atriplex canescens*	3
Basin big sage	*Artemisia tridentata tridentata*	4
Fringed sage wort	*Artemisia frigida*	6
Cliffrose	*Purshia mexicana*	3

*****THIS QUOTE IS GOOD FOR 10 DAYS*****
*****ALL PRICES SUBJECT TO AVAILABILITY**SUBJECT TO BEING UNSOLD*****

Here is our quotation on the goods named, subject to the conditions noted:

The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

Typographical and stenographic errors are subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production. Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein, which may appear on Purchaser's formal order will not be binding on the Seller.

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THIS AGREEMENT IS BETWEEN:

Buyer: _____ Date: _____ Seller: _____ Date: July 12, 2016

Closure Cost Estimate
Cost Summary

Project Name: Dicaperl El Grande Closeout Plan
Project Date: January 23,2016
Model Version: Version 1.4.1
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm

A. Earthwork/Recontouring	Labor (1)	Equipment (2)	Materials	Total
Exploration	$10,710	$42,575	$0	$53,285
Exploration Roads & Drill Pads	$0	$0	$0	$0
Roads	$317	$1,837	$0	$2,154
Well Abandonment	$0	$0	$0	$0
Pits	$0	$0	N/A	$0
Quarries & Borrow Areas	$10,336	$61,878	$0	$72,214
Underground Openings	$0	$0	$0	$0
Process Ponds	$0	$0	$0	$0
Heaps	$0	$0	$0	$0
Waste Rock Dumps	$18,887	$112,803	$0	$131,690
Landfills	$0	$0	$0	$0
Tailings	$0	$0	$0	$0
Foundation & Buildings Areas	$87	$531	$0	$618
Yards, Etc.	$0	$0	$0	$0
Drainage & Sediment Control	$0	$0	$0	$0
Generic Material Hauling	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal	**$40,337**	**$219,624**	**$0**	**$259,961**
Mob/Demob if included in Other User sheet	$0	$0	$0	$0
Mob/Demob				$0
Subtotal "A"	**$40,337**	**$219,624**	**$0**	**$259,961**

B. Revegetation/Stabilization	Labor (1)	Equipment (2)	Materials	Total
Exploration	$1,234	$2,220	$771	$4,225
Exploration Roads & Drill Pads	$0	$0	$0	$0
Roads	$1,367	$2,458	$1,093	$4,918
Well Abandonment				N/A
Pits	$0	$0	$0	$0
Quarries & Borrow Areas	$12,902	$23,197	$10,317	$46,416
Underground Openings				N/A
Process Ponds	$0	$0	$0	$0
Heaps	$0	$0	$0	$0
Waste Rock Dumps	$11,972	$21,524	$9,573	$43,069
Landfills	$0	$0	$0	$0
Tailings	$0	$0	$0	$0
Foundation & Buildings Areas	$643	$1,156	$514	$2,313
Yards, Etc.	$0	$0	$0	$0
Drainage & Sediment Control	$0	$0	$0	$0
Generic Material Hauling	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "B"	**$28,118**	**$50,555**	**$22,268**	**$100,941**

C. Detoxification/Water Treatment/Disposal of Wastes**	Labor (1)	Equipment (2)	Materials	Total
Process Ponds/Sludge				$0
Heaps				$0
Dumps (Waste & Landfill)				$0
Tailings				$0
Surplus Water Disposal				$0
Monitoring				$0
Miscellaneous				$0
Solid Waste - On Site	$0	$0	N/A	$0
Solid Waste - Off Site				$0
Hazardous Materials				$0
Hydrocarbon Contaminated Soils	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "C"	**$0**	**$0**	**$0**	**$0**

D. Structure, Equipment and Facility Removal, and Misc.	Labor (1)	Equipment (2)	Materials	Total
Foundation & Buildings Areas	$33,827	$10,308	$0	$44,135
Other Demolition	$0	$0	$0	$0
Equipment Removal	$0	$0	$0	$0
Fence Removal	$0	$0		$0
Fence Installation	$0	$0	$0	$0
Culvert Removal	$0	$0	N/A	$0
Pipe Removal	$0	$0	N/A	$0
Powerline Removal	$0			$0
Transformer Removal	$0			$0
Rip-rap, rock lining, gabions	$0	$0	$0	$0
Other Misc. Costs	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "D"	**$33,827**	**$10,308**	**$0**	**$44,135**

E. Monitoring	Labor (1)	Equipment (2)	Materials	Total
Reclamation Monitoring and Maintenance	$8,392	$2,504	$1,114	$12,010
Ground and Surface Water Monitoring	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Subtotal "E"	**$8,392**	**$2,504**	**$1,114**	**$12,010**

F. Construction Management & Support	Labor	Equipment (2)	Materials	Total
Construction Management	$121,190	$1,152	N/A	$122,342
Construction Support	$0	$0	$0	$0
Road Maintenance	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "F"	**$121,190**	**$1,152**	**$0**	**$122,342**

Subtotal Operational & Maintenance Costs	Labor (1)	Equipment (2)	Materials (3)	Total
Subtotal A through F	**$231,864**	**$284,143**	**$23,382**	**$539,389**

** Other Operator supplied costs - additional documentation required.

Indirect Costs			Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)				$32,363
2. Contingency (8)				$43,151
3. Insurance (9)	$3,478			$3,478
4. Performance Bond (10)				$16,182
5. Contractor Profit (11)				$53,939
6. Contract Administration (12)				$53,939
7. Government Indirect Cost (13)				$0
Subtotal Add-On Costs				**$203,052**
Total Indirect Costs as % of Direct Cost				38%
GRAND TOTAL				**$742,441**

Administrative Cost Rates (%)

	Cost Ranges for Indirect Cost Percentages				
	<=	<=	<=	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	$500,000	$2,500,000	$25,000,000	$25,000,000	Small Plan
Variable Rate	8%	6%		4%	0%
	<=	<=	<=	>	
2. Contingency (8)	$500,000	$5,000,000	$50,000,000	$50,000,000	Small Plan
Variable Rate	10%	8%	6%	4%	0%
3. Insurance (9)	1.5%	of labor costs			
4. Bond (10)	3.0%	of the O&M costs if O&M costs are >$100,000			
5. Contractor Profit (11)	10%	of the O&M costs			
	<=	<=	<=	>	
6. Contract Administration (12)	$1,000,000	$15,000,000	$25,000,000	$25,000,000	
Variable Rate	10%	8%		6%	
0	0%	$0			

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES
NOTE :

Closure Cost Estimate
Cost Summary

Project Name: Dicaperl El Grande Closeout Plan
Project Date: January 23,2016
Model Version: Version 1.4.1
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm

Closure Cost Estimate
Exploration

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Exploration - Cost Summary

	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	$0	$0	$0	$0
Trench Backfilling Costs	$10,710	$42,575		$53,285
Subtotal Earthworks	**$10,710**	**$42,575**	**$0**	**$53,285**
Trench Revegetation Costs	$1,234	$2,220	$771	$4,225
TOTALS	**$11,944**	**$44,795**	**$771**	**$57,510**

Exploration Drillhole Abandonment - User Input

	Facility Description		Hole Plugging							
	Description (required)	ID Code	Hole Type (select)	Diameter in	Total Number of Holes	Max Holes Open at One Time	Casing to Remove ft	Average Depth of Hole[1] ft bgs	Depth to Water ft bgs	Hole Plug Method (select)

Notes:
1. If core holes are pre-drilled, use length of hole below pre-drilled length
2. If Top Plug is selected, assumes maximum 1/2hr laborer time to place plug and backfill with cuttings/soil (including move-to/set up time).

Exploration Trenches - User Input

	Facility Description		Trench Parameters					Backfill			Revegetation		
	Description (required)	ID Code	Trench Length ft	Trench Depth ft	Trench Bottom Width ft	Trench Sideslope Angle degrees	Additional Hrs for Walk-in[1] hr	Backfill Material (select)	Cut Material Type (select)	Backfilling Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)
1	3A		973	10.0	75.0	45.0		1.2	Alluvium	Medium Dozer	User Mix 5 (from Seed Mix sheet)		
2	3B		500	6.0	60.0	45.0					User Mix 5 (from Seed Mix sheet)		
3	3C		375	5.0	50.0	45.0					User Mix 5 (from Seed Mix sheet)		
4	3D		475	6.0	45.0	45.0					User Mix 5 (from Seed Mix sheet)		
5	3E		350	6.0	50.0	45.0					User Mix 5 (from Seed Mix sheet)		
6	3F		425	10.0	35.0	45.0					User Mix 5 (from Seed Mix sheet)		

Notes:
1. Include one-way hours necessary to walk equipment in from drop-off point to work area
2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Exploration Drillhole Abandonment

	Description (required)	Vol/foot of depth ft3	Hole Plugging Material[1]	Total Grout Volume[2] cy	Total Cuttings Volume cy	Total Top Seal Volume[3,4] cy	Total Drillhole Abandon. Hours[6,7] hrs	Casing Removal Labor Cost[5] $	Casing Removal Equipment Cost $	Plugging Labor Cost $	Plugging Equipment Cost $	Plugging Material Cost $	Top Seal Material Cost[2,3] $	Total Cost[6,7] $
								$0	$0	$0	$0	$0	$0	$0

Notes:

1. Assumes grout backfill from bottom of hole to 50' (15.24m) above static water level, up to 10' (3m) from top of hole
2. Assumes 25% loss to formation for grout backfill
3. If "Top Plug" hole plug method is used, assumes physical plug installed without backfill, grout or cement. Not available option for Nevada projects
4. Assumes top 20' (6 m) of hole is plugged with cement if "Grout Only", "Backfill + Grout", or "Cement Plug" hole plug method are chosen.
5. Assumes that a) casing is not cemented entire length, b) does not include temporary surface casing
6. Assumes minimum 1 hr per hole for abandonment (excluding move-to and casing removal)

Closure Cost Estimate
Exploration

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

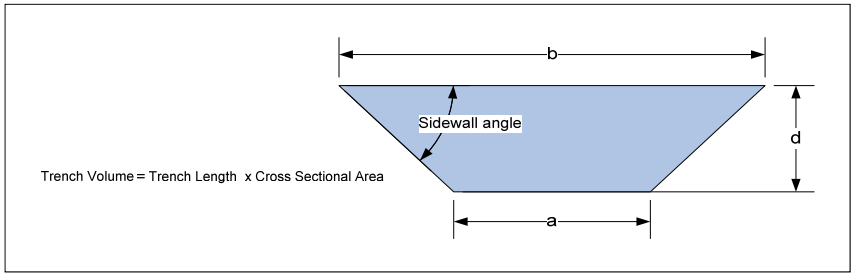
Exploration - Cost Summary

	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	$0	$0	$0	$0
Trench Backfilling Costs	$10,710	$42,575		$53,285
Subtotal Earthworks	**$10,710**	**$42,575**	**$0**	**$53,285**
Trench Revegetation Costs	$1,234	$2,220	$771	$4,225
TOTALS	**$11,944**	**$44,795**	**$771**	**$57,510**

7. Assumes fixed hours per hole for setup & tear-down and moving between holes (see Productivty Sheet) per drill hole (includes rig time if grouting required, labor crew only if cuttings backfill only)

Exploration Trenches - Calculations

Exploration Trench Volume Calculation



Dozing & Ripping/Scarifying Calculations

Dozing: Dozing distance = 1/2 trench length or 400 ft (max push) whichever is less
Assumes flat push (grade correction factor = 1)

Revegetation: 10 ft added to trench width to account for revegetation under spoil pile

Exploration Trenches - Backfill/Regrading Costs

Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83)

	Description (required)	Trench Backfill Volume LCY (BCY+30%)	Dozer Push Distance ft	Equipment Productivity yd3/hr	Dozing Material	Density Correction	Backfilling Fleet	Corrected Hourly Productivity yd3/hr	Total Dozer Hours hr	Trench Backfill Labor Cost $	Trench Backfill Equipment Cost $	Total Trench Backfill Cost $
1	**3A**	39,820	487	182	1.20	0.79	D7R	107	372	$10,710	$42,575	$53,285
2	**3B**	9,533	250	Select Fleet	Dozing Material	Material Type!	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet
3	**3C**	4,965	188	Select Fleet	Dozing Material	Material Type!	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet
4	**3D**	6,998	238	Select Fleet	Dozing Material	Material Type!	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet
5	**3E**	5,663	175	Select Fleet	Dozing Material	Material Type!	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet
6	**3F**	9,208	213	Select Fleet	Dozing Material	Material Type!	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet	Select Fleet
		76,187							372	**$10,710**	**$42,575**	**$53,285**

Exploration Trenches - Revegetation Costs

	Description (required)	Surface Area acres	Revegetation Labor Cost $	Revegetation Equipment Cost $	Revgetation Material Cost $	Total Revegetation Cost $
1	**3A**	2.30	$389	$700	$311	$1,400
2	**3B**	0.90	$169	$304	$122	$595
3	**3C**	0.60	$169	$304	$81	$554
4	**3D**	0.70	$169	$304	$95	$568
5	**3E**	0.60	$169	$304	$81	$554
6	**3F**	0.60	$169	$304	$81	$554
		5.70	**$1,234**	**$2,220**	**$771**	**$4,225**

Closure Cost Estimate
Waste Rock Dumps

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Waste Rock Dumps - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$548	$3,366	N/A	$3,914
Cover Placement Cost	$17,331	$103,235	N/A	$120,566
Topsoil Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$1,008	$6,202	N/A	$7,210
Subtotal Earthworks	**$18,887**	**$112,803**	**$0**	**$131,690**
Revegetation Cost	$11,972	$21,524	$9,573	$43,069
TOTALS	**$30,859**	**$134,327**	**$9,573**	**$174,759**

Waste Rock Dumps - User Input

You must fill in ALL green cells in this section for each dump, lift or dump category

	Facility Description			Physical - MANDATORY								Cover				Growth Media			
	Description (required)	ID Code	Type	Underlying Ground Slope % Grade	Ungraded Slope _H:1V	Final Slope _H:1V	Final Top Slope % Grade	Lift (dump) Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance) ft	Final (Regraded) Dump Footprint acres	Regrade Volume (1) (if calculated elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Dump to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Dump to Stockpile % grade
1	**Dump 1E**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**	**1,753**	**2,013**	**16.00**		**24.0**	**24.0**	**2,242**	**1.0**				
2	**Dump 1Eb**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**	**425**	**640**	**4.00**		**24.0**	**24.0**	**523**	**1.0**				
3	**Dump 1Ec**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**	**680**	**1,003**	**8.00**		**24.0**	**24.0**	**688**	**1.0**				
4	**Dump 2A**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**50**	**980**	**2,355**	**19.00**		**24.0**	**24.0**	**2,915**	**1.0**				
5	**Dump 1A**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**			**4.50**									
6	**Dump 1B**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**			**3.00**									
7	**Dump 1C**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**			**2.00**									
8	**Dump 1D**		**Waste Rock Dump**	**1.1**	**1.1**	**3.0**	**0.0**	**15**			**13.00**									

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Waste Rock Dumps - User Input (cont.)

You must fill in ALL green cells and relevant blue cells in this section for each dump, lift or dump category

		Grading				Cover		Growth Media		Revegetation								
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	Slot/Side-by-Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Seed Mix Slopes (select)	Seed Mix Flat Areas (select)	Mulch Slopes (select)	Mulch Flat Areas (select)	Fertilizer Slopes (select)	Fertilizer Flat Areas (select)	Slope Scarify/ Rip? (select)	Flat Area Scarify/ Rip? (select)	Scarify/ Ripping Fleet (select)
1	**Dump 1E**	**1.2**	**Alluvium**	**Med**	**No**	**Alluvium**	**Scraper Dozer**			**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**					**Yes**	**Yes**	**Med Dozer**
2	**Dump 1Eb**	**1.2**	**Alluvium**	**Med**	**No**	**Alluvium**	**Scraper Dozer**			**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**					**Yes**	**Yes**	**Med Dozer**
3	**Dump 1Ec**	**1.2**	**Alluvium**	**Med**	**No**	**Alluvium**	**Scraper Dozer**			**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**					**Yes**	**Yes**	**Med Dozer**
4	**Dump 2A**	**1.2**	**Alluvium**	**Med**	**No**	**Alluvium**	**Scraper Dozer**			**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**					**Yes**	**Yes**	**Med Dozer**
5	**Dump 1A**									**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**							
6	**Dump 1B**									**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**							
7	**Dump 1C**									**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**							
8	**Dump 1D**									**User Mix 5 (fr**	**User Mix 5 (from Seed Mix sheet)**							

Notes:
1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Waste Rock Dumps - Calculations

Regrading Volume Calculation

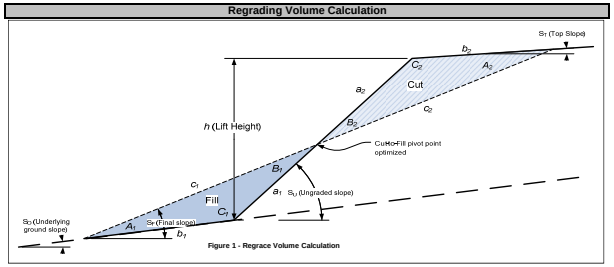


Figure 1 - Regrace Volume Calculation

Final Slope Area and Footprint Area Calculations

Final slope length = $c_1 + c_2$
Final slope area = Final slope length x Mid-bench Length
Final lift height (h_{final}) = ($c_1 + c_2$) x sin(Final slope)
Final slope width (d) = ($c_1 + c_2$) x cos(Final slope)
Final slope footprint = Final slope width x Mid-bench Length
Final flat area= Final footprint – Final slope footprint

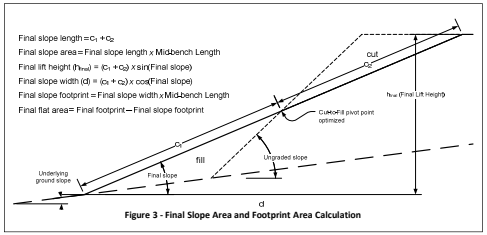


Figure 3 - Final Slope Area and Footprint Area Calculation

Regrading Push Distance Calculation

dozing distance: based on 2/3 final cut slope + 2/3 final fill slope (minimum = 50 ft)

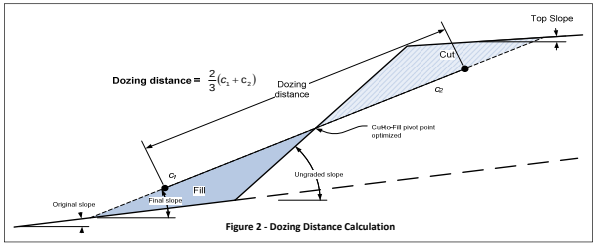


Figure 2 - Dozing Distance Calculation

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per dump

Slopes:
Number of passes = Final slope length ÷ Grader width
Travel distance = Number of passes x Mid-bench length
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
Minimum 1 hr

Flat Areas:
Flat area width = Final flat area ÷ Average long dimensions
Number of passes = Flat area width ÷ Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)

Revegetation: Minimum 1 acre revegetation crew time per area

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Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Waste Rock Dumps - Cost Summary				
	Labor	**Equipment**	**Materials**	**Totals**
Grading Costs	$548	$3,366	N/A	$3,914
Cover Placement Cost	$17,331	$103,235	N/A	$120,566
Topsoil Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$1,008	$6,202	N/A	$7,210
Subtotal Earthworks	**$18,887**	**$112,803**	**$0**	**$131,690**
Revegetation Cost	$11,972	$21,524	$9,573	$43,069
TOTALS	**$30,859**	**$134,327**	**$9,573**	**$174,759**

Closure Cost Estimate
Waste Rock Dumps

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Waste Rock Dumps - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$548	$3,366	N/A	$3,914
Cover Placement Cost	$17,331	$103,235	N/A	$120,566
Topsoil Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$1,008	$6,202	N/A	$7,210
Subtotal Earthworks	**$18,887**	**$112,803**	**$0**	**$131,690**
Revegetation Cost	$11,972	$21,524	$9,573	$43,069
TOTALS	**$30,859**	**$134,327**	**$9,573**	**$174,759**

Waste Rock Dumps - Regrading Costs

Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)

	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost $	Total Equipment Cost $	Total Regrading Cost $
1	**Dump 1E**	3,506	50	D9R	2,251	1.6	1.2	0.79	1.0	2,125	2	$58	$354	$412
2	**Dump 1Eb**	850	50	D9R	2,251	1.6	1.2	0.79	1.0	2,125	1	$29	$177	$206
3	**Dump 1Ec**	1,360	50	D9R	2,251	1.6	1.2	0.79	1.0	2,125	1	$29	$177	$206
4	**Dump 2A**	21,778	77	D9R	1,499	1.6	1.2	0.79	1.0	1,415	15	$432	$2,658	$3,090
5	**Dump 1A**	0		Select Fleet								$0	$0	$0
6	**Dump 1B**	0		Select Fleet								$0	$0	$0
7	**Dump 1C**	0		Select Fleet								$0	$0	$0
8	**Dump 1D**	0		Select Fleet								$0	$0	$0
		27,494									19	**$548**	**$3,366**	**$3,914**

Waste Rock Dumps - Cover and Growth Media Costs

		Cover (lower layer)								Growth Media Placement							
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost $	Cover Equipment Cost $	Total Cover Cost $	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost $	Total Equipment Cost $	Total Growth Media Cost $
1	**Dump 1E**	51,400	631G/D10R/D7R	979	2	52	$5,988	$35,670	$41,658						$0	$0	$0
2	**Dump 1Eb**	14,424	631G/D10R/D7R	860	1	17	$1,468	$8,761	$10,229						$0	$0	$0
3	**Dump 1Ec**	25,007	631G/D10R/D7R	794	1	31	$2,677	$15,976	$18,653						$0	$0	$0
4	**Dump 2A**	63,243	631G/D10R/D7R	1,271	3	50	$7,198	$42,828	$50,026						$0	$0	$0
5	**Dump 1A**						$0	$0	$0						$0	$0	$0
6	**Dump 1B**						$0	$0	$0						$0	$0	$0
7	**Dump 1C**						$0	$0	$0						$0	$0	$0
8	**Dump 1D**						$0	$0	$0						$0	$0	$0
		154,074				150	**$17,331**	**$103,235**	**$120,566**						**$0**	**$0**	**$0**

Waste Rock Dumps - Scarifying/Revegetation Costs

	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs $	Scarifying/ Ripping Equipment Cost $	Total Scarifying/ Ripping Costs $	Revegetation Labor Cost $	Revegetation Equipment Cost $	Revgetation Material Cost $	Total Revegetation Cost $
1	**Dump 1E**	1.93	14.00	15.93	48	2,013	D9R	1	10	$317	$1,949	$2,266	$2,696	$4,846	$2,155	$9,697
2	**Dump 1Eb**	0.47	4.00	4.47	48	640	D9R	0	3	$86	$532	$618	$757	$1,360	$605	$2,722
3	**Dump 1Ec**	0.75	7.00	7.75	48	1,003	D9R	1	5	$173	$1,063	$1,236	$1,311	$2,358	$1,048	$4,717
4	**Dump 2A**	3.60	16.00	19.60	160	2,355	D9R	3	12	$432	$2,658	$3,090	$3,316	$5,963	$2,652	$11,931
5	**Dump 1A**	0.00	5.00	5.00	48					$0	$0	$0	$846	$1,521	$677	$3,044
6	**Dump 1B**	0.00	3.00	3.00	48					$0	$0	$0	$508	$913	$406	$1,827
7	**Dump 1C**	0.00	2.00	2.00	48					$0	$0	$0	$338	$608	$271	$1,217
8	**Dump 1D**	0.00	13.00	13.00	48					$0	$0	$0	$2,200	$3,955	$1,759	$7,914
		6.75	64.00	70.75				5	30	**$1,008**	**$6,202**	**$7,210**	**$11,972**	**$21,524**	**$9,573**	**$43,069**

Notes: 1) Minimum total ripping hours = 1 (i.e. If total ripping hrs (slope + flat) < 1, then one hour of fleet time is assumed, regardless of acres shown in in scarifying table.)
2) Assumes 50min/hr equipment availability

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Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Roads - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$115	$597	N/A	$712
Cover Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$202	$1,240	N/A	$1,442
Subtotal Earthworks	**$317**	**$1,837**		**$2,154**
Revegetation Cost	$1,367	$2,458	$1,093	$4,918
TOTALS	**$1,684**	**$4,295**	**$1,093**	**$7,072**

Roads - User Input

You must fill in ALL green cells and relevant blue cells in this section for each road

	Facility Description			Physical (1) - MANDATORY						User Overrides		Growth Media		
	Description (required)	ID Code	Type	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Cut Slope degrees	Road Width ft	Road Length ft	Slope Replacement Percent %	Regrade Volume (if calculated elsewhere) cy	Disturbed Area (if calculated elsewhere) acres	Growth Media Thickness in	Haul Distance from Growth Media Stockpile ft	Slope from Road to Stockpile % grade
1	**Area Roads**		**Haul Road**	**1.0**	**1.0**	**45.0**	**20.0**	**17,424**	**3%**					

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
3. Because the work required for building roads with a dozer is similar to that required to regrade a road with a dozer, this sheet could be used to provide a rough estimate of road construction costs if a dozer is selected as the grading fleet.

Roads - User Input (cont.)

		Haul Road Safety Berms				
	Description (required)	Berm Length ft	Berm Height ft	Berm Base Width ft	Berm Sideslope Angle _H:1V	Number of Berms (2) (1 or 2 sides)
1	**Area Roads**	**17,424.0**	**0.5**	**3.0**	**3.0**	**2**

(2) Enter 1 if berm on only one side of road, 2 if both sides of road are bermed.

Roads - User Input (cont.)

You must fill in ALL green cells and relevant blue cells in this section for each road

		Grading				Growth Media			Revegetation				
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	No. of Excavators if grade >30% (select)	Growth Media Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)
1	**Area Roads**	**1.2**	**Alluvium**	**Med Excavator**	**1**				**User Mix 5 (from**	**None**	**None**	**Yes**	**Med Dozer**

Notes:
1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table
2. If original slope >30% only excavators are allowed.

Roads - Calculations

Regrading Volume and Footprint Volume

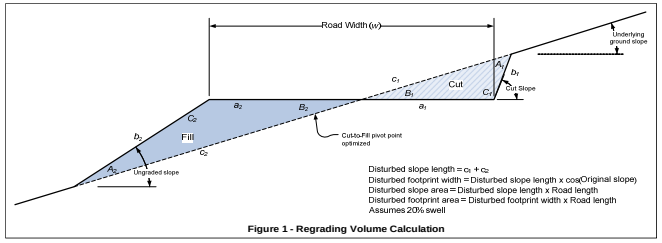


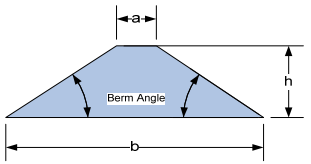
Figure 1 - Regrading Volume Calculation

Will not allow dozer for slopes greater than 30%
For dozer regrading push distance = road width
Assumes dozer push is uphill
Assumes minimum push distance of 100 ft

Safety Berm Volume Calculation

Cross Sectional Area = $\frac{(a+b)}{2} \times h$

Berm Volume = Berm Length x Cross Sectional Area x No. Sides



Total berm volume doubled if both sides of road are bermed.
If length of berm on each side of road is different, input total length of both berms and input 1 for number of sides

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per area
Number of passes = Final slope length ÷ Grader width
Travel distance = Number of passes x Road length
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
For dozer regrading assumes push distance = 3 x road width

Revegetation Calculations

Minimum of 1 acre crew time per area

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Roads - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$115	$597	N/A	$712
Cover Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$202	$1,240	N/A	$1,442
Subtotal Earthworks	**$317**	**$1,837**		**$2,154**
Revegetation Cost	$1,367	$2,458	$1,093	$4,918
TOTALS	**$1,684**	**$4,295**	**$1,093**	**$7,072**

Roads - Regrading Costs

	Description (required)	Regrading Volume cy	Recontouring Fleet	Fleet Productivity cy/hr	Total Fleet Hours hr	Total Labor Cost $	Total Equipment Cost $	Total Regrading Cost $
1	**Area Roads**	978	345B	480	2	$115	$597	$712
		978			2	**$115**	**$597**	**$712**

Roads - Growth Media Costs

	Description (required)	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost $	Total Equipment Cost $	Total Growth Media Cost $
1	**Area Roads**						$0	$0	$0
							$0	**$0**	**$0**

Roads - Scarifying/Revegetation Costs

	Description (required)	Total Surface Area acres	Final Slope Length ft	Ripping/ Scarifying Fleet	Ripping Hours hrs	Ripping Labor Costs $	Ripping Equipment Cost $	Total Ripping Costs $	Revegetation Labor Cost $	Revegetation Equipment Cost $	Revgetation Material Cost $	Total Revegetation Cost $
1	**Area Roads**	8.08	20.0	D9R	7	$202	$1,240	$1,442	$1,367	$2,458	$1,093	$4,918
		8.08			7	**$202**	**$1,240**	**$1,442**	**$1,367**	**$2,458**	**$1,093**	**$4,918**

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Waste Rock Dumps - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$29	$177	N/A	$206
Cover Placement Cost	$8,752	$52,133	N/A	$60,885
Topsoil Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$1,556	$9,568	N/A	$11,125
Safety Berm Construction Cost	$0	$0	N/A	$0
Subtotal Earthwork	**$10,336**	**$61,878**	**$0**	**$72,215**
Revegetation Cost	$12,902	$23,197	$10,317	$46,416
Safety Berm Revegetation Cost	$0	$0	$0	$0
TOTALS	**$23,238**	**$85,075**	**$10,317**	**$118,630**

Quarries & Borrow Pits - User Input

You must fill in ALL green cells in this section for each dump, lift or dump category

	Facility Description			Physical - MANDATORY									Cover				Growth Media			
	Description (required)	ID Code	Type	Underlying Ground Slope % Grade	Ungraded Slope _H:1V	Final Slope _H:1V	Final Top Slope % Grade	Bench or Highwall Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance) ft	Final (Regraded) Footprint acres	Regrade Volume (1) (if calculated elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Dump to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Dump to Stockpile % grade
1	EL Grande Quarry		Quarry	1.0	1.2	3.0	3.0	2	2,556	2,936	76.25		9.0	9.0	1,350	3.0				

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivity Sheet)

Quarries & Borrow Pits - User Input (cont.)

You must fill in ALL green cells and relevant blue cells in this section for each dump, lift or dump category

		Grading				Cover		Growth Media		Revegetation								
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	Slot/Side-by-Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Seed Mix Slopes (select)	Seed Mix Flat Areas (select)	Mulch Slopes (select)	Mulch Flat Areas (select)	Fertilizer Slopes (select)	Fertilizer Flat Areas (select)	Slope Scarify/ Rip? (select)	Flat Area Scarify/ Rip? (select)	Scarify/ Ripping Fleet (select)
1	EL Grande Quarry	1.2	Alluvium	Med	No	Alluvium	Scraper Dozer			User Mix 5 (fr	User Mix 5 (from Seed Mix sheet)					Yes	Yes	Med Dozer

Notes:
1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Quarries & Borrow Pits - User Input (cont.)

	Facility Description	Highwall Berms					Berm Construction		Excavate or Doze	Hauling (if selected method)				Revegetation		
	Description (required)	Berm (or Highwall) Length ft	Berm Height ft	Berm Base Width ft	Berm Sideslope Angle _H:1V	Volume (if calculated elsewhere) cy	Construction Method (select)	Berm Material Type (select)	Berm Construction Equipment Fleet (select)	Berm Hauling Fleet (select)	Distance to Borrow Source ft	Slope to Borrow Source % grade	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)
1	EL Grande Quarry															

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivity Sheet)
3. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Quarries & Borrow Pits - Calculations

Regrading Volume Calculation

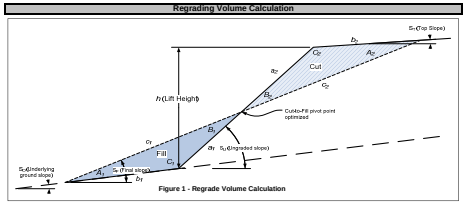


Figure 1 - Regrade Volume Calculation

Final Slope Area and Footprint Area Calculations

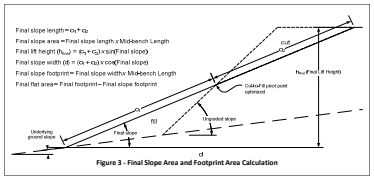


Figure 3 - Final Slope Area and Footprint Area Calculation

Regrading Push Distance Calculation

dozing distance: based on 2/3 final cut slope + 2/3 final fill slope (minimum = 50 ft)

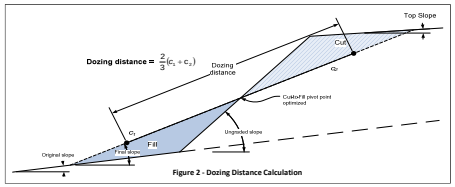


Figure 2 - Dozing Distance Calculation

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per dump

Slopes:
Number of passes = Final slope length ÷ Grader width
Travel distance = Number of passes x Mid-bench length
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
Minimum 1 hr

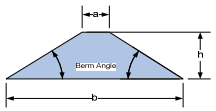
Flat Areas:
Flat area width = Final flat area ÷ Average long dimensions
Number of passes = Flat area width ÷ Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)

Revegetation: Minimum 1 acre revegetation crew time per area

Safety Berm Volume Calculation

Cross Sectional Area = $\frac{(a+b)}{2} \times h$

Berm Volume = Berm Length x Cross Sectional Area



Dozer productivity assumes push distance of: 100 feet

Dozer:
Length x (Berm Base Width + Dozer Push Distance) - accounts for disturbance created in borrow area

Excavator:
Length x (Berm Base Width + (2 x Excavator Track Width) - accounts for disturbance created in borrow area

Haul & Place:
Length x Berm Base Width - if necessary use Yards sheet to account for disturbance created in borrow area

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Waste Rock Dumps - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$29	$177	N/A	$206
Cover Placement Cost	$8,752	$52,133	N/A	$60,885
Topsoil Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$1,555	$9,568	N/A	$11,123
Safety Berm Construction Cost	$0	$0	N/A	$0
Subtotal Earthwork	**$10,336**	**$61,878**	**$0**	**$72,214**
Revegetation Cost	$12,902	$23,197	$10,317	$46,416
Safety Berm Revegetation Cost	$0	$0	$0	$0
	$12,902	**$23,197**	**$10,317**	**$46,416**
TOTALS	**$23,238**	**$85,075**	**$10,317**	**$118,630**

Quarries & Borrow Pits - Regrading Costs

Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)

	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost $	Total Equipment Cost $	Total Regrading Cost $
1	EL Grande Quarry	95	50	D9R	2,251	1.6	1.2	0.79	1.0	2,125	1	$29	$177	$206
		95									1	**$29**	**$177**	**$206**

Quarries & Borrow Pits - Cover and Growth Media Costs

		Cover (lower layer)								Growth Media Placement							
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost $	Cover Equipment Cost $	Total Cover Cost $	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost $	Total Equipment Cost $	Total Growth Media Cost $
1	EL Grande Quarry	92,262	631G/D10R/D7R	1,204	2	76	$8,752	$52,133	$60,885						$0	$0	$0
		92,262				76	**$8,752**	**$52,133**	**$60,885**						**$0**	**$0**	**$0**

Quarries & Borrow Pits - Scarifying/Revegetation Costs

	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs $	Scarifying/ Ripping Equipment Cost $	Total Scarifying/ Ripping Costs $	Revegetation Labor Cost $	Revegetation Equipment Cost $	Revgetation Material Cost $	Total Revegetation Cost $
1	EL Grande Quarry	0.41	75.84	76.25	7	2,936	D9R	0	54	$1,555	$9,568	$11,123	$12,902	$23,197	$10,317	$46,416
		0.41	75.84	76.25					54	**$1,555**	**$9,568**	**$11,123**	**$12,902**	**$23,197**	**$10,317**	**$46,416**

Notes: 1) Minimum total ripping hours = 1 (i.e. If total ripping hrs (slope + flat) < 1, than one hour of fleet time is assumed, regardless of acres shown in in scarifying table.)
2) Assumes 50min/hr equipment availability

Quarries & Borrow Pits - Safety Berm Construction Costs

		Safety Berm							
	Description (required)	Safety Berm Volume cy	Selected Fleet	Number of Trucks/ Scrapers	Corrected Fleet Productivity cy/hr	Total Hours	Safety Berm Labor Cost $	Safety Berm Equipment Cost $	Total Safety Berm Cost $
1	EL Grande Quarry						$0	$0	$0
							$0	**$0**	**$0**

Quarries & Borrow Pits - Safety Berms - Revegetation Costs

	Description (required)	Flat Area acres	Revegetation Labor Cost $	Revegetation Equipment Cost $	Revgetation Material Cost $	Total Revegetation Cost $
1	EL Grande Quarry	0.00	$0	$0	$0	$0
			$0	**$0**	**$0**	**$0**

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Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Buildings & Foundation Demolition Cost Summary

	Labor	Equipment	Materials	Totals
Building Demolition Cost	$30,075	$9,360	N/A	$39,435
Wall Demolition Cost	$3,596	$0	N/A	$3,596
Slab Demolition	$156	$948	N/A	$1,104
Subtotal Demolition	**$33,827**	**$10,308**	**$0**	**$44,135**
Cover Placement Cost	$0	$0	N/A	$0
Growth Media Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$87	$531	N/A	$618
Subtotal Earthworks	**$87**	**$531**	**$0**	**$618**
Revegetation Cost	$643	$1,156	$514	$2,313
TOTALS	**$34,557**	**$11,995**	**$514**	**$47,066**

Buildings & Foundation - User Input

You must fill in ALL green cells and relevant blue cells in this section for each building or facility

	Facility Description			Physical - MANDATORY								Foundation Cover (1)			Growth Media (1) (entire footprint)		
	Description (required)	ID Code	Type	Length ft	Width ft	Eve Height ft	Slab Thickness in	Foundation Wall Thickness in	Foundation Wall Height ft	Average Flat Area Long Dimension (ripping distance) ft	Building Area Footprint (including surrounding facilities) acres	Foundation Cover Thickness in	Distance from Foundation Cover Borrow Area ft	Slope from Facility to Borrow Area % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
1	**Mill Building**		**Process - Plant & Buildings**	**75**	**50**	**30**	**8**	**8**	**4**	**70**	**1.00**						
2	**Mill Ancillary Site Facilities**		**Site Facilities - Structures**	**95**	**70**	**30**	**8**	**8**	**4**	**90**	**2.80**						

Notes:
1. Foundation cover only calculated to cover slab. Growth media estimated over entire footprint area
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Buildings & Foundation - User Input (cont.)

You must fill in ALL green cells and relevant blue cells in this section for each building or facility

		Construction Materials		Slab Demolition		Foundation Cover			Growth Media			Revegetation				
	Description (required)	Building Type (select)	Foundation Wall Type (select)	Slab Demo Method (select)	Slab Breaking Equipment Fleet (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarify/ Rip? (select)	Ripping Fleet (select)
1	**Mill Building**	**Lg. steel**	**Block 6 in (150 mm) thick**	**Break & bury**	**Lg Excavator**							**User Mix 5 (from Seed Mix sheet)**			**Yes**	**Med Dozer**
2	**Mill Ancillary Site Facilities**	**Lg. mixed**	**Block 6 in (150 mm) thick**	**Break & bury**	**Lg Excavator**							**User Mix 5 (from Seed Mix sheet)**			**Yes**	**Med Dozer**

Notes:
1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Buildings & Foundation - Calculations

Building Volume Calculations

Using Means Heavy Construction Cost Data (2004) calculates cubic feet from building dimensions
Estimage slab thickness and wall thickness if not known
Assumes that all concrete slabs are reinforced
Productivity for crew from Means Heavy Construction Cost Data (2004) adjusted for supervision
(addressed in Misc. Costs) and Davis-Bacon Wage Rates
Demolition costs do not include hauling or disposing if debris - Use Waste Disposal module

Slab Demolition Calculations

Minimum 1 hr excavator time for slab demolition

Cover Volume Calculation

Foundation area x cover thickness
If "Bury in Place" is selected as slab demolition method, cover thickness is adjusted such that
total cover (cover + growth media) equals value entered in "Minimum thickness of cover over unbroken slab" cell above

Ripping/Scarifying Calculations

Flat area width = Final flat area ÷ Average long dimensions
Number of passes = Flat area width ÷ Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)

Revegetation

Minimum 1 acre revegetation crew time per area

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Buildings & Foundation Demolition Cost Summary

	Labor	Equipment	Materials	Totals
Building Demolition Cost	$30,075	$9,360	N/A	$39,435
Wall Demolition Cost	$3,596	$0	N/A	$3,596
Slab Demolition	$156	$948	N/A	$1,104
Subtotal Demolition	**$33,827**	**$10,308**	**$0**	**$44,135**
Cover Placement Cost	$0	$0	N/A	$0
Growth Media Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$87	$531	N/A	$618
Subtotal Earthworks	**$87**	**$531**	**$0**	**$618**
Revegetation Cost	$643	$1,156	$514	$2,313
TOTALS	**$34,557**	**$11,995**	**$514**	**$47,066**

Building & Foundation Demolition Costs

Uses RS Means Heavy Construction Cost Data for building and wall demolition cost calculations. Uses CAT Handbook for slab breaking production.

								Building Demolition			Wall Demolition			Slab Demolition			Total Costs		
	Description (required)	Building Footprint (slab area) sqft	Building Volume cu ft	Wall Length ft	Wall Area sq ft	Slab Demolition Fleet	Slab Volume cy	Total Labor Cost $	Total Equipment Cost $	Total Building Demolition Cost $	Total Labor Cost $	Total Equipment Cost $	Total Wall Demolition Cost $	Total Labor Cost $	Total Equipment Cost $	Total Slab Breaking Cost $	Total Labor Cost $	Total Equipment Cost $	Total Demolition Costs $
1	**Mill Building**	3,750	112,500	250	1,000	385BL	93	$10,125	$3,375	$13,500	$1,550	$0	$1,550	$58	$351	$409	$11,733	$3,726	$15,459
2	**Mill Ancillary Site Facilities**	6,650	199,500	330	1,320	385BL	164	$19,950	$5,985	$25,935	$2,046	$0	$2,046	$98	$597	$695	$22,094	$6,582	$28,676
			312,000				257	**$30,075**	**$9,360**	**$39,435**	**$3,596**	**$0**	**$3,596**	**$156**	**$948**	**$1,104**	**$33,827**	**$10,308**	**$44,135**

Building & Foundation - Foundation Cover and Growth Media Costs

		Foundation Cover								Growth Media								Total Cover & Growth Media Costs		
	Description (required)	Cover Volume cy	Cover Repacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost $	Total Equipment Cost $	Total Cover Cost $	Growth Media Volume cy	Growth Media Repacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost $	Total Equipment Cost $	Total Growth Media Cost $	Total Labor Cost $	Total Equipment Cost $	Total Costs $
1	**Mill Building**						$0	$0	$0						$0	$0	$0	$0	$0	$0
2	**Mill Ancillary Site Facilities**						$0	$0	$0						$0	$0	$0	$0	$0	$0
							$0	**$0**	**$0**						**$0**	**$0**	**$0**	**$0**	**$0**	**$0**

Building & Foundation - Scarifying/Revegetation Costs

					Scarifying/Ripping			Revegetation				Total Scarify & Revegation Costs			
	Description (required)	Flat Area acres	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs $	Scarifying/ Ripping Equipment Cost $	Total Scarifying/ Ripping Costs $	Revegetation Labor Cost $	Revegetation Equipment Cost $	Revgetation Material Cost $	Total Revegetation Cost $	Total Labor Cost $	Total Equipment Cost $	Total Material Cost $	Total Costs $
1	**Mill Building**	1.00	D9R	1	$29	$177	$206	$169	$304	$135	$608	$198	$481	$135	$814
2	**Mill Ancillary Site Facilities**	2.80	D9R	2	$58	$354	$412	$474	$852	$379	$1,705	$532	$1,206	$379	$2,117
		3.80		3	**$87**	**$531**	**$618**	**$643**	**$1,156**	**$514**	**$2,313**	**$730**	**$1,687**	**$514**	**$2,931**

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Reclamation Monitoring & Maintenance - Cost Summary

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	$1,392	$2,504	$1,114	$5,010
Erosion Maintenance	$0	$0	N/A	$0
Reclamation Monitoring	$7,000	$0	N/A	$7,000
Subtotal Reclamation Monitoring	**$8,392**	**$2,504**	**$1,114**	**$12,010**
Water Quality Monitoring	$0	$0	$0	$0
TOTAL MONITORING	**$8,392**	**$2,504**	**$1,114**	**$12,010**

Reclamation Maintenance

Description	Total Revegetation Surface Area (1,2) acres	% Area Requiring Reseeding	Seed Mix (select)	Area Requiring Reseeding acres	Seed $/acres	Labor $/acres	Equipment $/acres	Totals $
Revegetation Maintenance	165	5%	User Mix 5 (fro	8.2	$135.32	$169.21	$304.23	
Labor								$1,392
Equipment								$2,504
Materials								$1,114
Cost/Acre								$609
							Subtotal	**$5,010**

Notes: 1) Surface area is NOT the same as footprint disturbance area typically used for permitting purposes.

	Total Volume Growth Media cy	% Volume Requiring Maintenance	Average Growth Media Placement Cost $/CY	Volume Requiring Replacement cy		Labor (assume: 25%) $/acres	Equipment (assume: 75%) $/acres	Total $
Erosion Maintenance	0	5%	$0.00	0		$0.00	$0.00	$0

Notes:

Reclamation Monitoring

Description	Hrs/Day	Days/Year	Number of Years	Rate $/hr		
Field Work						
Field Geologist/Engineer	2	4	5	$87.51		$3,500
Range Scientist				$72.92		$0
Reporting						
Field Geologist/Engineer	2	4	5	$87.51		$3,500
Range Scientist				$72.92		$0
					Subtotal	**$7,000**
Travel						
	Hrs/Trip hr	Trips/Year	Years	Truck Cost $/hr		
Travel				$1.20		$0
					Subtotal	**$0**
					Total Reclamation Monitoring	**$7,000**

Notes:

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
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Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Reclamation Monitoring & Maintenance - Cost Summary

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	$1,392	$2,504	$1,114	$5,010
Erosion Maintenance	$0	$0	N/A	$0
Reclamation Monitoring	$7,000	$0	N/A	$7,000
Subtotal Reclamation Monitoring	**$8,392**	**$2,504**	**$1,114**	**$12,010**
Water Quality Monitoring	$0	$0	$0	$0
TOTAL MONITORING	**$8,392**	**$2,504**	**$1,114**	**$12,010**

Water and Rock Sample Analysis

Description	Samples #	Events/Year	No. Years	First Sample Year closure year (1-100)	No. of Samplers	Days/Event	Hrs/Day	Analysis Cost $/sample	Supplies $/sample

Notes: Sampling labor cost = No. Samplers x Years x Events/year x Days/event x Hour/Day x Labor Rate
Sampling equipment costs include 1 pickup truck for every two samplers

Ground & Surface Water Monitoring

Pump Costs

Description	No. of units		Years		Cost $
Pump (purchased)		Replacement period (yrs):			$0
				Subtotal Field Work	**$0**

Notes: Replacement period = frequency of pump replacement

Reporting

Description	Hrs/Event	Rate $/hr	Cost $
Field Geologist/Engineer			
		Subtotal Reporting	

Notes:

Closure Cost Estimate
Constr. Mgmt

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Construction Management & Road Maintenance - Cost Summary

	Labor	Equipment	Materials	Totals
Construction Management	$121,190	$1,152	N/A	$122,342
Construction Support		$0		$0
Road Maintenance	$0	$0	$0	$0
TOTAL CONSTRUCTION MANAGEMENT	**$121,190**	**$1,152**	**$0**	**$122,342**

Construction Management

Construction Management Staff

Description	Duration mo.	Hours/ Month hr.	Number of Supervisors	Supervisor Rate $/hr	Labor Cost $	Equipment Cost[1] $	Totals $
Active Reclamation	**12**	**120**	**1**	$84.16	$121,190	$1,152	$122,342
Monitoring & Maintenance					$0	$0	$0
				Total Staff	**$121,190**	**$1,152**	**$122,342**

Construction Management Support

Description	Duration mo.	Number of Units		Rental Rate $/mo	Generator Cost $/mo	Equipment Cost[1] $	Totals $
Temporary Office Rental						$0	$0
Temporary Toilets						$0	$0
					Total Support	**$0**	**$0**

Notes: Office rental assumes only 1 generator required for every 4 trailers

Total Construction Management **$122,342**

Road Maintenance

Description	Fleet Size (select)	Number	Duration mo.	Hours/ Month hr.	Labor Cost $	Equipment Cost $	Totals $
Active Reclamation							
Water Truck					$0	$0	$0
Grader					$0	$0	$0
Monitoring & Maintenance							
Water Truck					$0	$0	$0
Grader					$0	$0	$0

Description	Gallons/ Day	Days/ Month	Duration mo.	Cost/ Gallon $			Totals $
Water Fees							
Water Fees							$0
				Total Project Maintenance	**$0**	**$0**	**$0**

Notes: 1) Supervisor equipment = pickup truck

Closure Cost Estimate
Labor Rates

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Color Code Key	
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User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE ADJUSTMENTS		
Cost Basis/Project Region	Alamosa, Colorado	Southern Colorado
Power Equipment Operators	<50 miles	$0.00
Truck Drivers	50-100	$2.00
Laborers	100-200	$3.00

INDIRECT COSTS	
Unemployment (%)	1.85%
Retirement/SS/Medicare (%)	0.01%
Workman's Compensation (%)	3.50%
Other Indirects	
State Payroll Tax (13),(15),(17),(1	5.50%
Total Other Indirects	**5.50%**

HOURLY LABOR RATE TABLE

EQUIPMENT TYPE (1) OR JOB DESCRIPTION	Labor Group	Base Rate ($/hr)	Zone Adjustment ($/hr)	Hourly Wage ($/hr)	Fringe ($/hr)	Retirement/ Medicare ($/hr)	Unemployment Insurance ($/hr)	Workman's Compensation ($/hr)	Other Indirect Costs ($/hr)	Total ($/hr)
Equipment Operators ($/hr) (2)										
Bulldozers										
D6R		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
D6R w/ Winch		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
D7R		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
D8R		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
D9R		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
D10R		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
D11R		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Wheeled Dozers										
824G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
834G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
844		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
854G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Motor Graders										
120H		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
14G/H		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
16G/H		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
24M		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Track Excavators										
312C		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
320C		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
325C		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
330C		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
345B		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
365BL		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
385BL		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Scrapers										
631G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
637G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Wheeled Loaders										
924G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
928G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
950G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
966G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
972G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
980G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
988G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
990		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
992G		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
994D		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
L2350		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Shovels										
PC2000		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
PC3000		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
PC4000		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
PC5500		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
PC8000		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
Hydraulic Hammers										
H-120 (fits 325)										
H-160 (fits 345)										
H-180 (fits 365/385)										
Demolition Shears										
S340 (fits 322/325/330)										
S365 (fits 330/345)										
S390 (fits 365/385)										
Demolition Grapples										
G315 (fits 322/325)										
G320 (fits 325/330)										
G330 (fits 345/365)										

Closure Cost Estimate
Labor Rates

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE ADJUSTMENTS			
Cost Basis/Project Region	Alamosa, Colorado	Southern Colorado	
Power Equipment Operators	<50 miles	$0.00	
Truck Drivers	50-100	$2.00	
Laborers	100-200	$3.00	

INDIRECT COSTS	
Unemployment (%)	1.85%
Retirement/SS/Medicare (%)	0.01%
Workman's Compensation (%)	3.50%
Other Indirects	
State Payroll Tax (13),(15),(17),(1	5.50%
Total Other Indirects	**5.50%**

HOURLY LABOR RATE TABLE

Other Equipment										
420D 4WD Backhoe		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$38.77
428D 4WD Backhoe		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$38.77
CS533E Vibratory Roller		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$38.77
CS633E Vibratory Roller		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$38.77
CP533E Sheepsfoot Compactor		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$38.77
CP633E Sheepsfoot Compactor		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$36.84
Light Truck - 1.5 Ton					$0.00					
Supervisor's Truck					$0.00					
Flatbed Truck					$0.00					
Air Compressor + tools					$0.00					
Welding Equipment					$0.00					
Heavy Duty Drill Rig					$0.00					
Pump (plugging) Drill Rig					$0.00					
Concrete Pump					$0.00					
Gas Engine Vibrator		$34.97	$0.00	$34.97	$0.00	$0.65	$0.00	$1.22	$1.92	$38.77
Generator 5KW					$0.00					
HDEP Welder (pipe or liner)					$0.00					
5 Ton Crane		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
20 Ton Crane		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
50 Ton Crane		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79
120 Ton Crane		$25.97	$0.00	$25.97	$0.00	$0.48	$0.00	$0.91	$1.43	$28.79

NOTES:

(1) Equipment Type:	Catepillar model or equivalent, LeTourneau	
(2) Equipment Operator Source:		
(3) Zone Basis:		

Truck Drivers ($/hr) (4)										
725		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
730		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
735		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
740		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
769D		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
773E		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
777D		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
785C		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
793C		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
797B		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
613E (5,000 gal) Water Wagon		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
621E (8,000 gal) Water Wagon		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
777D Water Truck		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
785C Water Truck		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47
Dump Truck (10-12 yd3)		$32.70	$2.00	$34.70	$0.00	$0.64	$0.00	$1.21	$1.91	$38.47

NOTES:

(4) Truck Driver Source:	
(5) Zone Basis:	

Closure Cost Estimate
Labor Rates

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ZONE ADJUSTMENTS		
Cost Basis/Project Region	Alamosa, Colorado	Southern Colorado
Power Equipment Operators	<50 miles	$0.00
Truck Drivers	50-100	$2.00
Laborers	100-200	$3.00

INDIRECT COSTS	
Unemployment (%)	1.85%
Retirement/SS/Medicare (%)	0.01%
Workman's Compensation (%)	3.50%
Other Indirects	
State Payroll Tax (13),(15),(17),(1	5.50%
Total Other Indirects	**5.50%**

HOURLY LABOR RATE TABLE

Laborers ($/hr) (6,7)

General Laborer		$21.64	$3.00	$24.64		$0.46	$0.00	$0.86	$1.36	$27.32
Skilled Laborer		$31.25	$3.00	$34.25		$0.63	$0.00	$1.20	$1.88	$37.97
Driller's Helper		$19.24	$3.00	$22.24		$0.41	$0.00	$0.78	$1.22	$24.66
Rodmen (reinforcing concrete)		$24.00	$3.00	$27.00		$0.50	$0.00	$0.95	$1.49	$29.93
Cement finisher		$25.50	$3.00	$28.50		$0.53	$0.00	$1.00	$1.57	$31.60
Carpenter		$26.50	$3.00	$29.50		$0.55	$0.00	$1.03	$1.62	$32.70

NOTES:

(6) Laborer Source:	
(7) Carpenter Source:	
(8) Zone Basis:	

Project Management and Technical Labor ($/hr) (9)

Project Manager		$75.92		$75.92		$1.40	$0.01	$2.66	$4.18	$84.16
Foreman		$59.11		$59.11		$1.09	$0.01	$2.07	$3.25	$65.53
Field Geologist/Engineer		$78.94		$78.94		$1.46	$0.01	$2.76	$4.34	$87.51
Field Tech/Sampler		$68.19		$68.19		$1.26	$0.01	$2.39	$3.75	$75.60
Range Scientist		$65.78		$65.78		$1.22	$0.01	$2.30	$3.62	$72.92
Senior Planning Engineer		$157.88		$157.88		$2.92	$0.02	$5.53	$8.68	$175.03
Project Engineer		$49.62		$49.62		$0.92	$0.00	$1.74	$2.73	$55.01
Mechanic/Fitter		$25.97		$25.97		$0.48	$0.00	$0.91	$1.43	$28.79

NOTES:

(9) Project Manager:	
(9) Foreman Source:	
(9) Techical Labor Source:	
Other Labor Source:	
Other Labor Source:	
†Additional User Markups	
(These are added by the user to the	
base rate to account for site-specific	
conditions or corporate requirements)	

Closure Cost Estimate
Equipment Costs

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Monthly Rental Basis: 176 hrs month

EQUIPMENT RENTAL RATE TABLE

EQUIPMENT TYPE (1)	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
Bulldozers				
D6R	$8,500.00	$48.30	$5.00	$53.30
D6R w/ Winch	$14,960.00	$85.00	$5.00	$90.00
D7R	$19,086.84	$108.45	$6.00	$114.45
D8R	$23,000.00	$130.68	$7.80	$138.48
D9R	$29,178.73	$165.79	$11.40	$177.19
D10R	$38,000.00	$215.91	$14.40	$230.31
D11R	$47,014.04	$267.13	$21.20	$288.33
Wheeled Dozers				
824G			$8.60	$8.60
834G			$10.08	$10.08
844			$12.00	$12.00
854G			$15.20	$15.20
Motor Graders				
120H	$9,680.00	$55.00	$3.20	$58.20
14G/H	$15,782.00	$89.67	$5.00	$94.67
16G/H	$23,105.86	$131.28	$6.00	$137.28
24M			$12.40	$12.40
Track Excavators				
312C	$8,280.36	$47.05	$1.50	$48.55
320C	$9,802.49	$55.70	$3.92	$59.62
325C	$13,530.00	$76.88	$5.28	$82.16
330C	$16,479.54	$93.63	$6.56	$100.19
345B	$19,843.95	$112.75	$8.48	$121.23
365BL	$24,285.45	$137.99	$10.56	$148.55
385BL	$28,189.30	$160.17	$14.00	$174.17
Scrapers				
631G	$27,913.74	$158.60	$12.00	$170.60
637G	$32,208.17	$183.00	$19.00	$202.00
Wheeled Loaders				
924G	$8,118.00	$46.13	$2.20	$48.33
928G	$9,709.13	$55.17	$2.80	$57.97
950G	$11,726.00	$66.63	$3.20	$69.83
966G			$4.60	$4.60
972G			$5.00	$5.00
980G			$6.00	$6.00
988G			$9.68	$9.68
990			$13.60	$13.60
992G			$18.40	$18.40
994D			$28.80	$28.80
L2350			$52.80	$52.80
Shovels				
PC2000			$29.60	$29.60
PC3000			$40.00	$40.00
PC4000			$56.00	$56.00
PC5500			$95.20	$95.20
PC8000			$119.20	$119.20
Hydraulic Hammers				
H-120 (fits 325)				$0.00
H-160 (fits 345)				$0.00
H-180 (fits 365/385)				$0.00
Demolition Shears				
S340 (fits 322/325/330)				$0.00
S365 (fits 330/345)				$0.00
S390 (fits 365/385)				$0.00
Demolition Grapples				
G315 (fits 322/325)				$0.00
G320 (fits 325/330)				$0.00
G330 (fits 345/365)				$0.00
Other Equipment				
420D 4WD Backhoe			$2.40	$2.40
428D 4WD Backhoe			$2.40	$2.40
CS533E Vibratory Roller			$3.00	$3.00
CS633E Vibratory Roller			$3.80	$3.80
CP533E Sheepsfoot Compactor			$3.00	$3.00
CP633E Sheepsfoot Compactor			$3.80	$3.80
Light Truck - 1.5 Ton			$1.20	$1.20
Supervisor's Truck			$0.80	$0.80
Flatbed Truck			$3.76	$3.76
Air Compressor + tools			$0.80	$0.80
Welding Equipment			$1.60	$1.60
Heavy Duty Drill Rig			$9.60	$9.60
Pump (plugging) Drill Rig			$8.00	$8.00
Concrete Pump			$8.00	$8.00
Gas Engine Vibrator			$0.80	$0.80
Generator 5KW			$1.20	$1.20
HDEP Welder (pipe or liner)			$1.60	$1.60
5 Ton Crane			$2.40	$2.40
20 Ton Crane			$3.20	$3.20
50 Ton Crane			$3.76	$3.76
120 Ton Crane			$4.16	$4.16
Trucks				
725			$3.76	$3.76
730			$4.16	$4.16
735			$5.88	$5.88
740			$5.88	$5.88
769D			$7.40	$7.40
773E			$9.40	$9.40
777D			$13.40	$13.40
785C			$19.40	$19.40
793C			$33.40	$33.40
797B			$47.00	$47.00
613E (5,000 gal) Water Wagon			$4.80	$4.80
621E (8,000 gal) Water Wagon			$8.60	$8.60
777D Water Truck			$13.40	$13.40
785C Water Truck			$19.40	$19.40
Dump Truck (10-12 yd^3)			$4.16	$4.16

NOTES:

(1) Power Equipment Source:	
(2) Power Equipment Type:	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels
(3) Drilliing Equipment Source:	
(4) Other Equipment Source:	

(5) Drill rig includes support (pipe) truck

Closure Cost Estimate
Equipment Costs

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm

FUEL, LUBE AND WEAR CALCULATIONS

EQUIPMENT TYPE	PM Cost Per Hour (1)	Under carriage or Tires (2)	G.E.T Consumption (3)	Fuel Use Rate gal/hr (4)	Cost@ 0.80/gal	Total Hourly Equipment Cost
Bulldozers						
D6R				6.25	$5.00	$5.00
D6R w/ Winch				6.25	$5.00	$5.00
D7R				7.50	$6.00	$6.00
D8R				9.75	$7.80	$7.80
D9R				14.25	$11.40	$11.40
D10R				18.00	$14.40	$14.40
D11R				26.50	$21.20	$21.20
Wheeled Dozers						
824G		$0.00		10.75	$8.60	$8.60
834G		$0.00		12.60	$10.08	$10.08
844		$0.00		15.00	$12.00	$12.00
854G		$0.00		19.00	$15.20	$15.20
Motor Graders						
120H				4.00	$3.20	$3.20
14G/H				6.25	$5.00	$5.00
16G/H				7.50	$6.00	$6.00
24M				15.50	$12.40	$12.40
Track Excavators						
312C				1.88	$1.50	$1.50
320C				4.90	$3.92	$3.92
325C				6.60	$5.28	$5.28
330C				8.20	$6.56	$6.56
345B				10.60	$8.48	$8.48
365BL				13.20	$10.56	$10.56
385BL				17.50	$14.00	$14.00
Scrapers						
631G				15.00	$12.00	$12.00
637G				23.75	$19.00	$19.00
Wheeled Loaders						
924G				2.75	$2.20	$2.20
928G				3.50	$2.80	$2.80
950G				4.00	$3.20	$3.20
966G				5.75	$4.60	$4.60
972G				6.25	$5.00	$5.00
980G				7.50	$6.00	$6.00
988G				12.10	$9.68	$9.68
990				17.00	$13.60	$13.60
992G				23.00	$18.40	$18.40
994D				36.00	$28.80	$28.80
L2350				66.00	$52.80	$52.80
Shovels						
PC2000				37.00	$29.60	$29.60
PC3000				50.00	$40.00	$40.00
PC4000				70.00	$56.00	$56.00
PC5500				119.00	$95.20	$95.20
PC8000				149.00	$119.20	$119.20
Hydraulic Hammers						
H-120 (fits 325)	N/A					$0.00
H-160 (fits 345)	N/A					$0.00
H-180 (fits 365/385)	N/A					$0.00
Demolition Shears						
S340 (fits 322/325/330)	N/A					$0.00
S365 (fits 330/345)	N/A					$0.00
S390 (fits 365/385)	N/A					$0.00
Demolition Grapples						
G315 (fits 322/325)	N/A					$0.00
G320 (fits 325/330)	N/A					$0.00
G330 (fits 345/365)	N/A					$0.00
Other Equipment						
420D 4WD Backhoe				3.00	$2.40	$2.40
428D 4WD Backhoe				3.00	$2.40	$2.40
CS533E Vibratory Roller				3.75	$3.00	$3.00
CS633E Vibratory Roller				4.75	$3.80	$3.80
CP533E Sheepsfoot Compactor				3.75	$3.00	$3.00
CP633E Sheepsfoot Compactor				4.75	$3.80	$3.80
Light Truck - 1.5 Ton				1.50	$1.20	$1.20
Supervisor's Truck				1.00	$0.80	$0.80
Flatbed Truck				4.70	$3.76	$3.76
Air Compressor + tools			N/A	1.00	$0.80	$0.80
Welding Equipment			N/A	2.00	$1.60	$1.60
Heavy Duty Drill Rig				12.00	$9.60	$9.60
Pump (plugging) Drill Rig				10.00	$8.00	$8.00
Concrete Pump			N/A	10.00	$8.00	$8.00
Gas Engine Vibrator			N/A	1.00	$0.80	$0.80
Generator 5KW			N/A	1.50	$1.20	$1.20
HDEP Welder (pipe or liner)			N/A	2.00	$1.60	$1.60
5 Ton Crane				3.00	$2.40	$2.40
20 Ton Crane				4.00	$3.20	$3.20
50 Ton Crane				4.70	$3.76	$3.76
120 Ton Crane				5.20	$4.16	$4.16
Trucks						
725				4.70	$3.76	$3.76
730				5.20	$4.16	$4.16
735				7.35	$5.88	$5.88
740				7.35	$5.88	$5.88
769D				9.25	$7.40	$7.40
773E				11.75	$9.40	$9.40
777D				16.75	$13.40	$13.40
785C				24.25	$19.40	$19.40
793C				41.75	$33.40	$33.40
797B				58.75	$47.00	$47.00
613E (5,000 gal) Water Wagon				6.00	$4.80	$4.80
621E (8,000 gal) Water Wagon				10.75	$8.60	$8.60
777D Water Truck				16.75	$13.40	$13.40
785C Water Truck				24.25	$19.40	$19.40
Dump Truck (10-12 yd3) (5)	N/A		N/A	5.20	$4.16	$4.16

Notes:

(1) PM Source:	
(2) Undercarriage Source:	
(3) G.E.T. Source:	CAT Historical Data
(4) Fuel Use Source:	Caterpillar Handbook, Edition 35, Ch. 20; or estimated average for smaller vehicles
(5) Dump Truck Oper. Cost Source:	Means Heavy Construction (2008)

Closure Cost Estimate
Equipment Costs

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm

TIRE COST TABLES

Equipment	Tire Size	# of Tires Per Piece of Equipment	Cost Per Tire	Tire Cost (1)(2)	Life Expectency Hours (Low/Zone A) (3)	Tire Cost per Hour
Bulldozers						
D6R			N/A			
D6R w/ Winch			N/A			
D7R			N/A			
D8R			N/A			
D9R			N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers						
824G	29.5R25	4		$0.00	3,500	$0.00
834G	35/65-R33	4		$0.00	3,500	$0.00
844	45/65-R39	4		$0.00	3,500	$0.00
854G	45/65-R45	4		$0.00	3,500	$0.00
Motor Graders						
120H	13PR24	6		$0.00	3,500	
14G/H	20.5R25	6		$0.00	3,500	
16G/H	23.5R25	6		$0.00	3,500	
24M	23.5R25	6		$0.00	3,500	
Track Excavators						
312C			N/A			
320C			N/A			
325C			N/A			
330C			N/A			
345B			N/A			
365BL			N/A			
385BL			N/A			
Scrapers						
631G	37.25R35	4		$0.00	4,000	
637G	37.25R35	4		$0.00	4,000	
Wheeled Loaders						
924G	17.5R25	4		$0.00	4,500	
928G	17.5R25	4		$0.00	4,500	
950G	26.5R25	4		$0.00	4,500	
966G	26.5R25	4		$0.00	4,500	
972G	26.5R25	4		$0.00	4,500	
980G	29.5R25	4		$0.00	4,500	
988G	35/65-33	4		$0.00	4,500	
990	41.25/70-39	4		$0.00	4,500	
992G	45/65R45	4		$0.00	4,500	
994D	55/85R57	4		$0.00	4,500	
L2350	55/85R57	4		$0.00	4,500	
Shovels						
PC2000			N/A			
PC3000			N/A			
PC4000			N/A			
PC5500			N/A			
PC8000			N/A			
Hydraulic Hammers						
H-120 (fits 325)			N/A			
H-160 (fits 345)			N/A			
H-180 (fits 365/385)			N/A			
Demolition Shears						
S340 (fits 322/325/330)			N/A			
S365 (fits 330/345)			N/A			
S390 (fits 365/385)			N/A			
Demolition Grapples						
G315 (fits 322/325)			N/A			
G320 (fits 325/330)			N/A			
G330 (fits 345/365)			N/A			
Other Equipment						
420D 4WD Backhoe	340/80R18-19.5LR24	2		$0.00	3,000	
428D 4WD Backhoe	340/80R18-16.9R28	2		$0.00	3,000	
CS533E Vibratory Roller			N/A			
CS633E Vibratory Roller			N/A			
CP533E Sheepsfoot Compactor			N/A			
CP633E Sheepsfoot Compactor			N/A			
Light Truck - 1.5 Ton		4		$0.00	3,000	
Supervisor's Truck		4		$0.00	3,000	
Flatbed Truck		22		$0.00	3,000	
Air Compressor + tools			N/A			
Welding Equipment			N/A			
Heavy Duty Drill Rig		4		$0.00	3,000	
Pump (plugging) Drill Rig		4		$0.00	3,000	
Concrete Pump			N/A			
Gas Engine Vibrator			N/A			
Generator 5KW			N/A			
HDEP Welder (pipe or liner)			N/A			
5 Ton Crane		4		$0.00	3,000	
20 Ton Crane		4		$0.00	3,000	
50 Ton Crane		6		$0.00	3,000	
120 Ton Crane		6		$0.00	3,000	
Trucks						
725	23.5R25	6		$0.00	2,000	
730	23.5R25	6		$0.00	2,000	
735	26.5R25	6		$0.00	2,000	
740	29.5R25	6		$0.00	2,000	
769D	18.00R33	6		$0.00	6,000	
773E	24.00R35	6		$0.00	5,000	
777D	27.00R49	6		$0.00	5,000	
785C	33.00R51	6		$0.00	4,000	
793C	40.00R57	6		$0.00	4,000	
797B	40.00R57	6		$0.00	4,000	
613E (5,000 gal) Water Wagon	23.5R25	6		$0.00	6,000	
621E (8,000 gal) Water Wagon	33.25R29	6		$0.00	8,000	
777D Water Truck	27.00R49	6		$0.00	5,000	
785C Water Truck	33.00R51	6		$0.00	4,000	
Dump Truck (10-12 yd3)		10		$0.00	6,000	

Notes:

(1) Unit Cost Basis:	Cost per tyre each
(2) Cost Basis:	
(3) Tire Cost Source:	
(4) Tire Wear Source:	Caterpillar Handbook, Edition 37

Closure Cost Estimate
Material Costs

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Revegetation Materials

Seed Mixes

Seed Mix	Description		Cost/Acre
None			
Mix 1	Basins		$696.30
Mix 2	Low Hills		$749.86
Mix 3	Uplands		$803.42
Mix 4	Riparian or Custom		$856.98
User Mix 1			
User Mix 2			
User Mix 3			
User Mix 4			
	Cost/lb	lbs/Acre	Cost/Acre
User Mix 5 (from Seed Mix sheet)	$5.24	$25.83	$135.32
Notes:			

Mulch

Item	Cost/lb	lbs/Acre	Cost/Acre
None			
Straw Mulch	$32.14		
Hydro Mulch	$10.71		
Timber Mulch			
Notes:			

Closure Cost Estimate
Material Costs

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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Amendments			
Item	**Cost/lb**	**lbs/Acre**	**Cost/Acre**
None			
Organic Matter	$0.27		$0.00
Treated Sludge			
Chemical	$1.12		$0.00
Notes:			

Closure Cost Estimate
Material Costs

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Well Abandonment Materials

Description	Cost/50lb bag	Units	Cost/unit*
Cement	$7.66	cy	$36.48
Grout (Low Grade Bentonite)	$38.28	cy	$182.29
Inert Material/Cuttings	$27.00	cy	$128.57
		cy	
		cy	

* Assumes 1 bag mixes with water to make 0.21 y3 or 0.16 m3 of grout/cement slurry.

Monitoring Costs

Description	Units	Cost/unit
Monitor Well Pump	ea.	
Sampling Supplies	ea.	
Maintenance	ea.	$40.00
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	

Closure Cost Estimate
Material Costs

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
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Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Fuel, Etc.

Description	Units	Cost/unit
Off-road Diesel - delivered (1)	$/gal	$0.800
Pickup Truck Mileage	$/mi	
Electical Power	$/kWh	$0.110

Closure Cost Estimate
Material Costs

Revegetation Method

Slopes

Disturbance Type	Seed Application Method	Labor Cost/Acre	Equipment Cost/Acre	Total Cost/Acre
Waste Rock Dumps	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Heap Leach	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Tailings	**Hand Broadcast**	$222.01		$222.01
Quarries & Borrow Pits	**Mechanical Broadcast**	$169.21	$304.23	$473.44

Flat Areas and Undifferentiated

Disturbance Type	Seed Application Method	Labor Cost/Acre	Equipment Cost/Acre	Total Cost/Acre
Exploration Trenches	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Exploration Roads	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Waste Rock Dumps	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Heap Leach	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Tailings	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Quarries & Borrow Pits	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Roads	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Pits	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Haul Material	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Foundations & Buildings	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Sediment & Drainge Control	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Process Ponds	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Landfills	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Yards, Etc.	**Mechanical Broadcast**	$169.21	$304.23	$473.44
Revegetation Maintenance	**Mechanical Broadcast**	$169.21	$304.23	$473.44

Closure Cost Estimate
Seed Mixture

Project Name: Dicaperl El Grande Closeout Plan - Reclamation Plan
Date of Submittal: January 23,2016
File Name: SRCE_Version_1_4_1_017_El Grande Reclamation Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12(2)_El Grande Reclamation Costs.xlsm
Cost Estimate Type: Surety Cost Basis: Alamosa, Colorado

Seed Mixture

Common Name	Scientific Name	Species Number of Seeds / lb	Species % in Mix	PLS/acre	Cost/Lb	Cost/Acre
Grasses						
Blue Grama	*Bouteloua gracilis*		12.00	0.98	2.63	$2.58
Sideoats Grama	*Bouteloua curtipendula*		8.00	2.12	3.20	$6.78
Western Wheatgrass	*Pascopyrum smithii*		15.00	9.21	6.60	$60.79
Sand Dropseed			8.00	0.10	10.20	$1.02
Bottlebrush squirreltail			10.00	2.83	3.45	$9.76
Rocky Mountain Penstemon			4.00	0.44	7.80	$3.43
Purple Prairie Clover			4.00	1.30	6.00	$7.80
Western Yarrow			5.00	0.12	1.87	$0.22
Lewis Flax			5.00	1.15	2.40	$2.76
Mexican Hat			5.00	0.46	6.60	$3.04
Desert Marigold			5.00	0.32	10.20	$3.26
Munro Globemallow			3.00	0.42	2.47	$1.04
Forbs						
Fourwing Saltbush			3.00	3.18	7.80	$24.80
Basin Big Sage			4.00	0.11	6.00	$0.66
Fringed Sageworth			6.00	0.09	1.87	$0.17
Cliffrose			3.00	3.00	2.40	$7.20
Shrubs						
Total				**$25.83**		**$135.32**

Source:

Notes:

2015 MOB/DEMOB using R.S. MEANS and SRCE equipment and DAVIS-BACON wages

blue font is for project specific user input

Miles one way from Washoe County Courthouse

Miles to project, one way: 81

El Grande Mine

Hours travel time @ 55 MPH: 1.47

Equipment	Mobilization $/hour (1)	$ Flat Rate load & unload (2)	$/hour Deadhead (empty return cost (3)	Disassembly and assembly (4)	Permit cost $ (5)	Pilot car costs	# of units	One Way Mob Cost	Total Mob and Demob Cost
Bulldozers									
D6R	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
D7R	$ 145	$ 145	$ 145	$ -	$ 25	$ 137	1	$ 733	$ 1,466
D8R	$ 169	$ 169	$ 169	$ -	$ 25	$ 193	1	$ 885	$ 1,771
D9R	$ 169	$ 169	$ 169	$ -	$ 25	$ 193	1	$ 885	$ 1,771
D10R	$ 169	$ 169	$ 169	$ 14,500	$ 25	$ 290		$ -	$ -
D11R (two transports) (7)	$ 169	$ 169	$ 169	$ 14,500	$ 25	$ 193		$ -	$ -
Motor Graders									
14G/H	$ 84	$ 84	$ 84	$ -	$ -	$ -	1	$ 332	$ 664
16G/H	$ 145	$ 145	$ 145	$ -	$ 25	$ 97		$ -	$ -
Track Excavators									
320C	$ 145	$ 145	$ 145	$ -	$ -	$ -		$ -	$ -
325C	$ 145	$ 145	$ 145	$ -	$ -	$ -		$ -	$ -
345B	$ 169	$ 169	$ 169	$ -	$ 25	$ 193	1	$ 885	$ 1,771
385BL	$ 169	$ 169	$ 169	$ 26,800	$ 25	$ 193		$ -	$ -
Scrapers									
631G	$ 169	$ 169	$ 169	$ -	$ 25	$ 193	3	$ 2,656	$ 5,313
637G PP	$ 169	$ 169	$ 169	$ -	$ 25	$ 193		$ -	$ -
Wheeled Loaders									
928G	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
966G	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
972G	$ 145	$ 145	$ 145	$ -	$ -	$ -		$ -	$ -
988G	$ 145	$ 145	$ 145	$ -	$ 25	$ 97	2	$ 1,385	$ 2,770
992G (two transports) (7)	$ 169	$ 169	$ 169	$ 46,700	$ 25	$ 193		$ -	$ -
Hydraulic Hammers									
H-120 (fits 325) no charge, mobilize with ma	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -
H-160 (fits 345) no charge, mobilize with ma	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -
H-180 (fits 365/385) no charge, mobilize wit	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -
Other Equipment									
420D 4WD Backhoe	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
CS563E Vibratory Roller	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
Light Truck - 1.5 Ton	$ 66	$ 66	$ 66	$ -	$ -	$ -		$ -	$ -
Supervisor's Truck	$ 55	$ 55	$ 55	$ -	$ -	$ -		$ -	$ -
Air Compressor + tools	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
Welding Equipment	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
Heavy Duty Drill Rig	$ 395	$ 395	$ 395	$ -	$ -	$ -		$ -	$ -
Pump (plugging) Drill Rig	$ 395	$ 395	$ 395	$ -	$ -	$ -		$ -	$ -
Concrete Pump	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
Gas Engine Vibrator	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
Generator 5KW	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
HDEP Welder (pipe or liner)	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
5 Ton Crane Truck	$ 92	$ 92	$ 92	$ -	$ -	$ -		$ -	$ -
25 Ton Crane	$ 146	$ 146	$ 146	$ -	$ -	$ -		$ -	$ -
Trucks									
725	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
740	$ 145	$ 145	$ 145	$ -	$ 25	$ 97	4	$ 2,770	$ 5,540
769D	$ 145	$ 145	$ 145	$ -	$ 25	$ 193		$ -	$ -
777D (two transports) (8)	$ 169	$ 169	$ 169	$ 48,300	$ 25	$ 290		$ -	$ -
613E (5,000 gal) Water Wagon	$ 169	$ 169	$ 169	$ -	$ -	$ -		$ -	$ -
621E (8,000 gal) Water Wagon	$ 169	$ 169	$ 169	$ -	$ 25	$ 193		$ -	$ -
Dump Truck (10-12 yd^3)	$ 132	$ 132	$ 132	$ -	$ -	$ -		$ -	$ -
Miscellaneous									
Equipment for dry hole abandonment (420D 4	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
Pilot car (Light Truck)	$ 56	$ 56	$ 56	$ -	$ -	$ -		$ -	$ -
Truck Tractor + Lowbed Trailer 75 ton	$ 169	$ 169	$ 169	$ -	$ -	$ -		$ -	$ -
Truck Tractor + Flatbed Trailer 40 ton	$ 145	$ 145	$ 145	$ -	$ -	$ -		$ -	$ -
Light Truck + Flatbed Trailer 25 ton	$ 84	$ 84	$ 84	$ -	$ -	$ -		$ -	$ -
							14		$ 21,064

Footnotes and explanations of assumptions

(1) The sum of the cost of equipment from either the SRCE or RSM equipment tab plus Davis-Bacon labor tab

(2) Assumes minimum of 30 minutes load and secure and 30 minutes unsecure and unload machine.

(3) No "Deadhead" (empty) charge for Mob up to 50 miles. More than 50 miles the cost of deadhead same rate as loaded miles.

(4) Only large equipment requires disassembly for transport. Includes cost of mechanic + mechanic's truck + crane operator + crane.

(5) Nevada Dept. of Transportation overdimensional permits are $25 per trip or $60 per year.

(6) Sum of mobilization plus all ancillary costs for one way loaded and return empty.

(7) Two transports are required but the second transport does not need pilot cars or permits or a heavy duty trailer.

(8) Two transports required with both requiring full complement of pilot cars and permits.

(9) Pilot Car costs based on SRCE light truck costs and Davis-Bacon wages

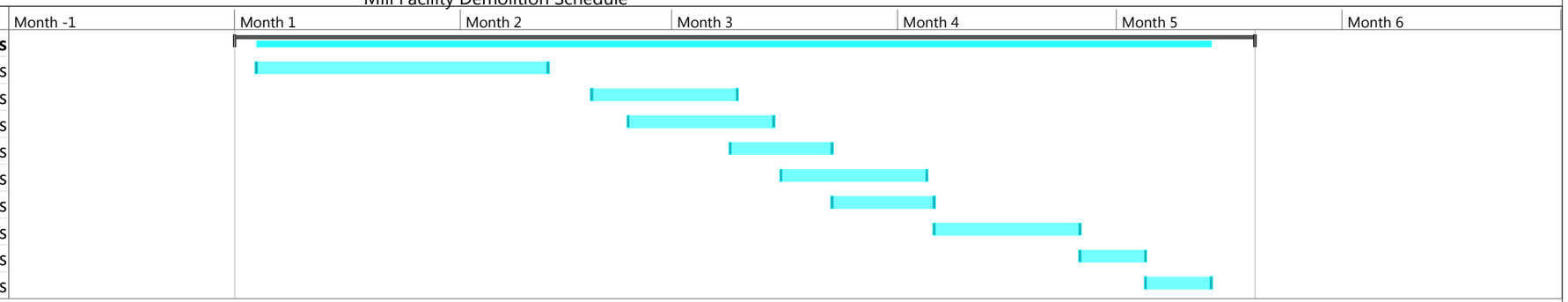
(10) SRCE costs based on July 2015 vendor quotes.

(11) RS Means costs based on R.S. Means Heavy Construction Cost Data, 2015, Q2

(12) Davis Bacon wages based on June 11, 2015 determination.

Mill Facility Demolition Schedule

ID	Task Name	Duration
1	**Mill Demolition**	**100 days**
2	Prepare RFP/Select contractor	30 days
3	Remove Siding	14 days
4	Dismantle Infrastructure	14 days
5	Remove Silos and Buildings	10 days
6	Break up Concrete Foundation	14 days
7	Dispose of Concrete	10 days
8	Site Grading	14 days
9	Rip and Scarify Surface	7 days
10	Disc and Seed	7 days

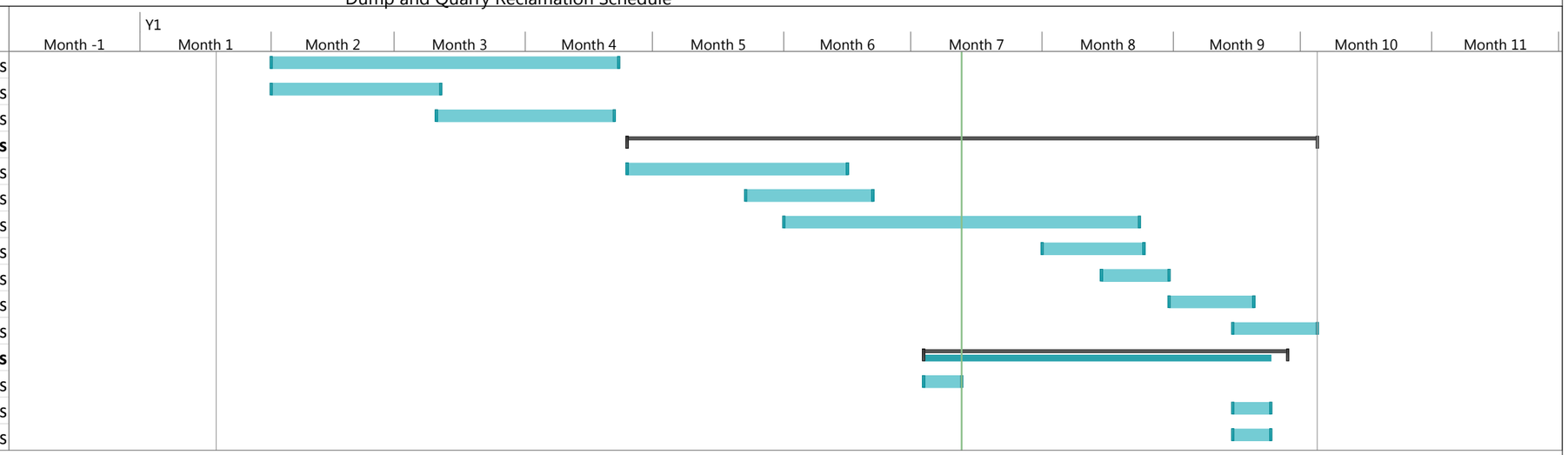


Project: El Grande Reclamation Sched
Date: Wed 7/13/16

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	

Dump and Quarry Reclamation Schedule

ID	Task Name	Duration
1	Notify MMD of Intent to Close	60 days
2	Prepare Request for Proposal (RFP)	30 days
3	Select Contractor	30 days
4	**Grading and Seeding**	**117 days**
5	Grading Dump Areas	38 days
6	Grading Quarry	22 days
7	Grading Exploration Area	60 days
8	Cover 1	18 days
9	Cover 2	12 days
10	Rip and Scarify Surface	14 days
11	Disc and Seed	14 days
12	**Roads**	**62 days**
13	Grading of Roads	7 days
14	Rip and Scarify Road Surface	7 days
15	Disc and Seed	7 days



Project: C:\Users\munsonbe\Documen
Date: Wed 7/13/16

Task	Project Summary	Manual Task	Start-only	Deadline	
Split	Inactive Task	Duration-only	Finish-only	Progress	
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress	
Summary	Inactive Summary	Manual Summary	External Milestone		