LAC MINERALS (USA) LLC CUNNINGHAM HILL MINE RECLAMATION PROJECT 582 COUNTY ROAD #55 CERRILLOS, NM 87010 TELEPHONE: 505.471.0434 FAX: 505.474.8582

May 27, 2022

Carmen Rose, Permit Lead Reclamation Specialist Mining and Minerals Division Mining Act Reclamation Program 1220 South St. Francis Drive Santa Fe, NM 87505 Carmen.Rose@State.nm.us

RE: Responses to agency comments for 2021 CCP update for MMD Permit No. SF002RE, LAC Minerals (USA) LLC Cunningham Hill Mine

Dear Ms. Rose:

This letter and attachments are responses to agency comments regarding revised Closeout/Closure Plan (CCP) for the LAC Minerals (USA) LLC, Cunningham Hill Mine Reclamation Project, Permit No. SF002RE. On September 11, 2021, the New Mexico Mining and Minerals Division (MMD) received a revised and updated Closure/Closeout Plan (CCP) from John Shomaker & Associates, Inc. (JSAI) on behalf of LAC Minerals (USA) LLC (LAC). Attached are response to agency comments and supplemental information to the revised CCP and pit waiver request.

A hard copy of this letter and attachments will be sent by mail. Do not hesitate to contact me at (775) 397-7215 if you have any questions or concerns regarding this report.

Sincerely,

ennifer L'Ortega

LAC Minerals (USA) LLC Jennifer L Ortega Health, Safety, and Environmental Superintendent Cunningham Hill Mine Reclamation Project

ec: B Bingham, Barrick

Steve Finch, Principal Hydrogeologist-Geochemist, JSAI Holland Shepherd, Program Manager, MARP, MMD Joe Fox, Acting Program Manager, MECS, NMED Kevin Myers, Senior Reclamation Specialist, MARP, MMD Anne Maurer, Permit Lead, MECS, NMED Gabe Wade, Assistant General Counsel, MMD Charles de Saillan, Attorney, NM Environmental Law Center

SUPPLEMENTAL INFORMATION

Revised CCP Section 6.1 – Open Pit Reclamation Plan (page 39)

• Correction to 1st paragraph: A pit waiver request is for un-reclaimed open pit area of 19.37 acres which include 16.55 acres of open pit walls and benches, and 2.82 acres of open pit waterbody

Revised CCP Section 6.2 – Waste Rock Pile Reclamation Plan page 39

- Attachment 1 DP-55 Waste Rock Pile Workplan submitted December 27, 2021
- Attachment 2 WRPWP timeline (approved)

Revised CCP Section 6.5 – Growth Medium for Final Reclamation page 39

• Attachment 3 Revised Table 6

Revised CCP Section 6.7 - Trees and Shrubs page 44

• References to One-seed juniper is to be removed from this section

Revised CCP Section 6.8.1 - grassland-revegetated vs. woodland-revegetated units of the remaining units in Permit No. SF002RE.

• Attachment 4 Cedar creek Associates (2021) report

Revised CCP Appendix H - pit waiver justification and request responses

• Attachment 5 Amended Appendix H

Revised CCP – applicable DP-55 permit conditions

• Attachment 6 DP-55 renewed 11/20/2020 Section C106 Closure

Draft Financial Assurance Cost Estimates

• Attachment 7

LAC Minerals (USA) LLC responses to CHMRP Closure/Closeout Plan Application for Revision 20-1, Permit No. SF002RE

Responses to comments from Energy, Minerals and Natural Resources Department dated March 12, 2022

1. Figures 4 and 7 should be modified to include the access road along the southwestern edge of the open pit as "disturbed area, unreclaimed". Please describe the closeout activities (i.e., will there be any ripping, regrading, or reseeding of the access road or portions of it?) proposed for this access road, including whether it is within the proposed pit waiver area.

Response: Figure 4 is a map showing only current access roads. The road along the southwestern edge was related to open pit operations but is currently not an access road. Figure 7 shows the road on the southwestern edge of the pit as reclaimed. As described in Section 5.1, portions of the open pit have been reclaimed and will be reclaimed for maintaining source controls as required by AP-27 issued by the New Mexico Environment Department (NMED). The proposed pit waiver is for all unreclaimed disturbed areas within the Open Pit watershed as identified on Figure 7. Unreclaimed area totals 19.37 acres which include 16.55 acres of open pit walls and benches, and 2.82 acres of open pit waterbody.

As part of the AP-27 revised remediation plan (JSAI, 2011), the open pit access roads and some bench areas have been partly reclaimed by regrading, installation of stormwater controls, and covered with caliche and compacted. In addition, 21.92 acres of the open pit perimeter has been reclaimed (see Fig. 7).

2. Section 5.1 Reclamation Performance Objectives, Open Pit, page 37, bullet 3 describes further reclamation to be completed in the open pit, "Reclaim portions of the Open Pit area that will assist with source controls, and sustain water-quality standards (see Fig. 7). Allow for natural revegetation of inaccessible pit walls and benches, such as what has already occurred over the last 25 years". Please discuss why LAC has changed this most recent submittal to not include installing wire mesh on the highwall along the eastern pit perimeter access road. This inquiry is echoed in NMED's comment letter, specific comment number 1.

Response: Installation of wire mesh was part of the original 1996 CCP. The eastern pit highwall is part of the disturbed unreclaimed area request for Pit waiver. The purpose of the wire mesh was for safety and not reclamation; however, LAC is concerned that the wire mesh cannot be safely installed. As part of AP-27 reclamation, the access road was reshaped for installation of stormwater controls and a berm was put in place to contain rock fall.

3. Section 5.1 Reclamation Performance Objectives, Open Pit, page 37: In LAC's response letter to MMD's original comments, dated May 21, 2021, LAC responded to comment 11, "An alternative water source will be provided within our allowable use of water rights",

but no alternative water source is proposed in the Application Amendment. NMDG&F continues to recommend providing an alternative water source to discourage wildlife from accessing the pit, as discussed in their comment letter.

Response: The open pit water body currently meets NMED standards for wildlife, and it is required by AP-27 to meet water quality standards for wildlife. LAC believes this is an AP-27 issue addressed by the Contingency Plan in Appendix B Section 3.1. Nevertheless, LAC will work with NMG&F to develop an alternative water source for wildlife.

4. Section 6.2, Reclamation Plan, Waste Rock Pile, page 39 does not include any information on the currently planned reclamation activities on the waste rock pile. These activities are outlined in the conditionally approved Waste Rock Pile Work Plan ("WRPWP"), submitted to MMD and NMED on December 27, 2021. Please submit, for incorporation into the CCP, the conditionally approved WRPWP and note that MMD will incorporate any future WRPWP submittals into the CCP. This is also addressed in NMED's Updated CCP comment number 2.

Response: The approved WRPWP was submitted prior to this version of the CCP. The WRPWP is provided as supplemental information to Section 6.2 (Attachments 1 and 2).

5. Table 6, page 41 does not include any growth medium for the open pit unit, although some reclamation around source controls, the RO ponds, and access roads is proposed in Section 6.7. Please update the table to incorporate these reclamation activities. This table should also be updated to include the anticipated volume of growth medium for repairs on the waste rock pile, as described in the WRPWP.

Response: The requested Pit Waiver is for the disturbed unreclaimed vertical pit walls and benches. Growth medium maybe in conflict with sources control measures required by AP-27, therefore it is not proposed for the pit walls and benches included in the Pit Waiver request. The WRPWP growth medium requirements are included in the revised Table 6 (Attachment 3).

6. Section 6.5, *Reclamation Plan, Growth Medium for Final Reclamation*, page 41 should be updated to include results of the soils analysis of the stockpiled cover material required under the WRPWP.

Response: The work related to the WRPWP is currently underway, and the results will be included in the CCP as it becomes available. Soil analysis will be included in engineering plan for WRP and submitted to MMD.

7. Section 6.7 *Reclamation Plan, Trees and Shrubs*, page 44: one-seed juniper is referenced in the text but not included in Table 9. MMD suggests removing one-seed juniper from the text altogether.

Response: References to One-Seed Juniper is removed from the CCP as corrected in the attached supplemental information

8. Section 6.8.1 Reclamation Plan, Revegetation Success Monitoring, Proposed Revegetation Standards, page 47, bullet number 3 includes a shrub/tree density standard for non- grassland revegetated units. Please provide a map showing grassland-revegetated vs. woodland-revegetated units of the remaining units in Permit No. SF002RE.

Response: Vegetation results can be referenced from Cedar Creek Associates reports submitted every three years to MMD and referenced in the CCP. The Cedar Creek Associates (2021) report is presented as Attachment 4.

9. Please include a timeline of the work described in the WRPWP for repairs on the waste rock pile in Section 8.0, Reclamation Schedule.

Response: The approved timeline is provided as Attachment 2.

10. Appendix H, Section 1.3 states, "LAC is not requesting a change to the Post Mining Land Use (PMLU). The CHMRP Open Pit PMLU of wildlife habitat and livestock watering will be maintained by meeting applicable Open Pit water-quality standards established by the New Mexico Water Quality Control Commission (NMWQCC) and requirements defined in 19.10.5.507.B(2) NMAC." This is also stated in Section 5.1 Reclamation Performance Objectives, Open Pit, "The PMLU will remain the same". To clarify, a waiver for the open pit would waive LAC's requirement of achieving a post-mining land use or self-sustaining ecosystem, in accordance with 19.10.5.507 NMAC. If the pit waiver is approved, MMD would not consider the open pit unit wildlife habitat or a self-sustaining ecosystem. However, MMD may condition a waiver to ensure LAC is reclaiming the open pit in a manner that reduces environmental impacts and addresses public health and safety.

Response: The open pit water body is included as the part of the area for Pit Waiver request. See response to MMD comment 1 and revised Appendix H Pit Waiver request (Attachment 5).

11. Appendix H, Figure 2 does not clearly show what area is proposed for the waiver. LAC must provide a modified Figure 2 that illustrates the acreage proposed to be waived from surface reclamation in the pit, including any water bodies, highwalls, benches, staging areas, pumping facilities, and access roads within the pit unit.

Response: See revised Appendix H and Figure 2 (Attachment 5).

12. Appendix H, Section 2.3.1 mentions the possibility of filling the pit using groundwater wells. LAC must provide more detail on the feasibility of locating and transferring water rights to partially fill (to 6945 ft amsl) the open pit by pumping groundwater. Specifically, the detail should provide more explanation about the nearest high yield wells (on and off-site sources), uncertainty of water rights transfer or leasing, and infrastructure needed if piped from a source capable of a 10-year at 100 gpm or some other more rapid fill scenario.

Response: On site wells and their capacity are discussed in Section 2.3.1, and as mentioned in Table 2 of the report, all onsite wells are permitted with existing water right permits held by LAC. To fully address MMD comment 12, LAC included a discussion regarding water rights availability and high-capacity wells within a five-mile radius of the open pit or reference previous studies in support of MMD Permit No. SF002RE that evaluated availability of water sources for filing the pit in the revised Appendix H (Attachment 5).

13. Appendix H, Section 3.1 mentions lack of annual rain without providing a graph or table. Please provide a graph of annual historical precipitation at the site.

Response: Annual historical precipitation at the site has been extensively evaluated by JSAI (2011) and JSAI (2020) as referenced in Section 3.1. Also please see CCP Appendix E, Table 1 Summary of annual precipitation and measured Upper Cunningham Gulch stormwater diversions. Annual precipitation data has also been included in the revised Appendix H (Attachment 5).

14. Appendix H, Section 3.2 considers one on-site (waste rock) and one offsite (Moriarty quarry) source of backfill. Provide discussion of other potential clean on-site sources and their proposed use in reclamation of the pit. Additionally, provide more detailed design basis information, even if only conceptual, such as full backfill plus swell factor when estimating volume need to fill the entire pit with positive drainage of stormwater.

Response: LAC is not aware of any other potential clean on-site sources as mentioned in first sentence of the second paragraph of Section 3.2. More detailed design basis information has been provided as "conceptual" in the revised Appendix H (Attachment 5).

15. Appendix H, Section 3.2 Provide at least one scenario(s) of a partial backfill in addition to the full backfill scenario of the pit and evaluate each scenario in accordance with 19.10.5.506.C. Include details about stormwater management in partial/full backfill scenarios. Provide more text and data that supports the pit waiver from achieving a postmining land use or self-sustaining ecosystem achievement based on the technical feasibility, economic feasibility, and/or environmental soundness of each partial and full backfilling scenario.

Response: LAC expanded on the discussion in revised Appendix H, Section 3.2 to address MMD comment 15 (See **Attachment 5**).

16. Appendix H, Section 3.2 Please include a more detailed cost estimate in Table 1 and include cost estimates for any additional pit filling scenarios as requested in the general comments and specific comment 7 in this letter.

Response: LAC provided the detailed cost estimate analysis supporting Appendix H Table 1 in revised Appendix H (**Attachment 5**).

17. Appendix H, Section 4.1 The surface water standards for the open pit are mentioned in Appendix E and in the main body of the CCP, but are not outlined in Appendix H. Please confirm these standards or cite other sections of the document in Appendix H.

Response: The surface water standards have been added to revised Appendix H (Attachment 5) and referenced with the main body of the CCP, Appendix A, Table 1, and Appendix E Table 3.

18. Appendix H, Section 4.2 A summary of remaining closeout/closure measures should be included. Provide details of what reclamation work remains and reference the CCP for reclamation work that needs to be done for facilities related to nanofiltration, reverse osmosis ponds, ARD ponds, waste rock pile repairs, etc.

Response: These are discussed in Section 4.2, and further discussed in Appendix B Section 2.0, and in greater detail in Appendix B of CCP Appendix B. This discussion has been added to the revised Appendix H (Attachment 5).

19. Appendix H, Section 5.2 Provide an estimated time of when a fence would be installed to protect humans and wildlife from the open pit. Please review NMDG&F's attached comment letter and respond to their recommendation on installing more protective fencing than what is currently proposed in the CCP.

Response: LAC is current working on obtaining the budget to implement this task next year, and will notify the MMD and NMDG&F when the budget has been secured and the project will be implemented.

20. Appendix H, Section 6.0 states that LAC is requesting a waiver for 16.55 acres of exposed vertical pit walls in the open pit, but not the pit lake itself which consists of 2.82 acres according to Figure 2. However, as previously stated in a comment letter from MMD on April 21, 2021, NMDG&F does not consider the pit lake wildlife habitat. If LAC does not consider the pit lake part of the waiver request, please discuss why LAC is only requesting a pit waiver for the exposed pit walls but not the pit lake.

Response: See response to MMD comment 1

21. Appendix H, Section 6.0 Overall, the argument justifying a pit waiver needs a conclusion rather than referencing Section 3.

Response: A conclusion has been provided in the revised Appendix H (Attachment 5)

Responses to comments from State of New Mexico Department of Cultural Affairs Historic Preservation Division; Richard Reycraft

According to our files, there are no cultural resources listed on either the National Register of Historic Places (NRHP) or the State Register of Cultural Properties in the modified permit area. There are also no known cemeteries or other burial grounds. Based on this information, this permit modification will have no adverse impacts to cultural resources listed on the National or State Registers.

In a prior consultation for this permit revision project (HPD log#114059) The State Historic Preservation Officer (SHPO) recommended that a cultural resources survey be conducted on any undisturbed portions of the permit area where new ground disturbance would occur for the permit revision. Responding to our comments in a letter to the Mining and Minerals Division, dated May 21, 2021, John Shomaker & Associates Inc. stated that "If any new disturbances occur a survey will be conducted". The SHPO appreciates the commitment to a survey for any new ground disturbance associated with this permit revision.

This survey should be performed by a qualified professional to determine if any historic or archaeological properties are present and if so, to provide documentation of those resources to our office. This information can then be used to evaluate the National Register of Historic Places eligibility of any resources identified during the survey and determine project effects on those resources. A list of state permitted archaeologists and archaeological firms are available from this office upon request or can be downloaded from our web site at:

http://www.nmhistoricpreservation.org/documents/consultants.html

Response: noted

New Mexico Office of the State Engineer, Hydrology Bureau, Christoper Angel

Re: Comments on Updated Closure/Close Out Plan and Financial Assurance, Permit Revision 20-1, Permit No. SF0002RE, Cunningham Hill Mine

- 1) The NMOSE D6 will need to be contacted to determine if the appropriate permits and/or water rights are obtained and are in place to account for the injection of the groundwater.
- 2) The NMOSE D6 will need to be contacted to determine and/or obtain the appropriate permits and/or water rights to account for evaporative losses.
- 3) NMOSE D6 needs to be contacted to determine if water rights are present for the pumping of water out of the open pit, through the membrane filtration and then back into the open pit or into the evaporation pond.
- 4) NMOSE D6 needs to be contacted prior to performing construction activities that require water, including but not limited to dust control, and soil compaction.
- 5) NMOSE D6 needs be contacted prior if water is needed for irrigating any of the seedings, trees and shrubs prior to irrigating
- 6) NMOSE D6 needs to be contacted prior to diverting any stormwater from the closing of the evaporation ponds or to determine if any additional water rights or points of diversion are necessary.
- 7) NMOSE D6 needs to be contacted prior to plugging or installing any new monitor or recovery wells that encounters water.

Response: Thanks for the comments. District 6 has been notified of all CHMRP site activities and appropriate water right permits have been obtained to cover all water diversion and consumptive uses related to the CHMRP. Please see CCP Table 2 which list all CHMRP water right permits issued by the NMOSE. LAC will provide copies of existing NMOSE issued water right permits to the Hydrology Bureau or Water Right Division District 6, if the NMOSE files are missing or incomplete. LAC will continue to abide by the NMOSE rules and regulations and notify District 6 of any permits required for the seven items listed above.

Responses to Comments from State of New Mexico Department of Game & Fish Matt Wunder

RE: Closure/Closeout Plan Update, Permit Revision 20-1, LAC Minerals LLC, Cunningham Hill Mine, Permit No. SF002RE; NMDGF No. NMERT-1501

In the previous closure/closeout plan, LAC requested that the Post Mine Land Use (PMLU) for the open pit be designated as Wildlife Habitat and stated that the pit lake will meet MMD's definition of a "Self-sustaining Ecosystem" (SSE). In the current, updated closure/closeout plan, LAC is now requesting a pit waiver for SSE. This change was based on a report prepared by JSAI at the request of MMD to evaluate the open pit and its ongoing water quality issues (Appendix E). The report concluded that "Open pit pool pH mitigation has been ongoing since 1996, and it is unknown if Acid Wall Seeps (AWS) source controls will eliminate the need for re- occurring pH mitigation" and that the "remaining exposed pit walls and benches are considered to not achieve the Post Mine Land Use of Wildlife Habitat". The Department concurs that a pit waiver is the most appropriate option if reclamation by backfilling the pit with clean material is deemed technically infeasible. The Department maintains that the hydro-geological complexities at the site and associated inherent uncertainties will continue to make predicting long-term future pit lake water quality extremely difficult. In addition to AWS, the long-term potential effects of climate change and periods of prolonged drought could also lead to hazardous water quality conditions for wildlife as a result of evapoconcentration of trace elements in the pit lake water.

In Section 6.1, the current closure/closeout plan states that, in order to prevent humans and wildlife from entering the pit lake area, "an 8-ft-high chain-link fence buried 2 ft below ground, where practicable, will be installed around the open pit perimeter". As stated above, the plan appears to indicate a total fence height of eight feet with only six feet being above ground. In order to exclude deer and elk, the above ground fence height should be a minimum of eight feet, in addition to the two feet of fence extending below ground to deter animals from burrowing under, for a total of ten feet. The Department also recommends that the bottom two feet of the above ground fence include a permanent solid or scored plastic or metal barrier, potentially with a horizontal lip at the top¹⁻³, to exclude smaller animals from accessing the pit lake. The Department reiterates that LAC should provide some type of alternative, clean water sources that would help attract wildlife away from the pit lake.

The current pit lake water quality meets the standards for wildlife, provided that pH control measures are maintained. If pH control measures cannot be maintained or become inadequate such that the pit lake's water quality declines to the point of being hazardous to wildlife, additional measures to exclude or deter birds and bats from accessing the pit lake may become necessary.

During the most recent site inspection in December, 2021, at collection ponds A and B, it was observed that sections of the protective netting, installed to prevent birds and bats from contacting the toxic Acid Rock Drainage (ARD) water, have not been repaired and continue to sag below water level. The Department has previously requested that LAC adequately repair and redesign the protective netting to prevent wildlife from accessing the toxic ARD water (e.g., previous letter from the Department dated 12 March 2021, NMDGF No. NMERT-864). Extruded plastic, knit or woven netting material is preferred. Monofilament nylon netting should not be used due to its tendency to ensnare wildlife and cause injury or death. All materials should be resistant to corrosion and ultraviolet radiation. The Department recommends a mesh size of 3/ th inch to exclude smaller animals. If the potential for snow loading needs to be addressed, a maximum mesh size of 1¹/₂ inches is acceptable. Netting must be held taut and securely fastened to a rigid and adequately supportive frame, or cross-hatched wire cables, to prevent sagging. Regular inspection and maintenance are critical to repair holes and to restore tension to prevent sagging. A site inspection should be conducted as soon as possible following heavy snow or high wind events to assess netting for damage or to clear excessive snow loading if necessary. The Department is available for consultation regarding netting options for site- specific pond sizes and containment needs. The bottom two feet of the above ground chain link perimeter fence should incorporate a permanent solid or scored plastic or metal barrier, potentially with a horizontal lip at the top, to exclude smaller animals from accessing the toxic ARD containment ponds.

Response: Open pit pool pH controls have been self-maintained since source controls were implemented in 2016 with the addition of lime to accessible benches and roads. LAC will consider an alternative source of water for wildlife, in the event the NMWQCC standards for wildlife cannot be maintained for the open pit pool. Please see CCP Appendix B Section 2.0 regarding measures to protect wildlife. Also see responses to MMD comments.

Issues with Collection Ponds A and B are noted, and LAC has been proactively mitigating these issues.

Responses to Comments from New Mexico Environment Department Ground Water Quality Bureau; Amber Maurer, Mining Environmental Compliance Section Alan Klatt, Surface Water Quality Bureau Sufi Mustafa, Air Quality Bureau

Subject: NMED Review and Comments, Revision 20-1, Updated Closure/Closeout Plan and Financial Assurance, Cunningham Hill Mine, LAC Minerals (USA), LLC, Santa Fe County, New Mexico Mining Act Permit No. SF002RE

Mining Environmental Compliance Section (MECS)

General Comments

1. The NMED-issued discharge permit (DP-55) for this mine was renewed and modified on November 20, 2020. There are numerous places in the Updated CCP that indicates that the permit renewal is pending, but this permit has been renewed and is in effect for five years. The Updated CCP should be updated accordingly. DP-55 regulates groundwater abatement associated with the Waste Rock Pile and the Dolores Gulch Acid Rock Drainage collection and treatment system. DP-55 also regulates groundwater abatement associated with the Cyanide Residue Pile plume, but this is not addressed as part of the Updated CCP because this part of the facility has been released from the Mining Act. The Cyanide Residue Pile plume will continue to be regulated under DP-55.

Response: Noted. The CCP references the current DP-55 permit issued November 20, 2020 in Table 2, pg. 9.

2. The NMED-issued abatement plan (AP-27) for this mine regulates abatement of the pit lake water body and groundwater around the Open Pit. AP-27 needs to be updated to reflect updates to the applicable surface water abatement standards for the pit lake water body in 20.6.4.99 NMAC. In addition, the costs for abatement activities also will need to be addressed as part of an update to AP-27.

Response: Noted.

Specific Comments:

MECS provided comments on the Updated CCP on March 19, 2021. Many of the comments in the March 19, 2021 letter are still relevant, as they were not adequately addressed in the permittee's May 21, 2021 response to comments (RTC) or the Updated CCP. These are as follows:

1. Open Pit – Comment 1 RTC – The pit waiver does not address source controls in the Open Pit that can be completed at this time. This includes reclamation of bench areas around the

Open Pit, placement of wire mesh on certain portions of the pit walls, and surface reclamation of an area on the north side of the Open Pit. Please verify if these areas are included in the Updated CCP, and if so, in what sections of the Updated CCP are they located.

Response: With a MMD pit waiver request, it was implied by the Agencies that any further reclamation was to be for maintaining open pit pool water quality standards for wildlife and livestock, and groundwater discharges, which would be addressed by an updated AP-27.

2. Open Pit– Comment 2 RTC – The pit waiver does not address reclamation of the Open Pit water body access corridor or the West side access road. Please indicate when the reclamation of these features will be completed.

Response: Please see response to MMD comments

3. Waste Rock Pile RTC – NMED received an updated Waste Rock Pile Work Plan (Work Plan) and Response to Comments from the applicant on December 27, 2021. NMED and MMD are in the process of reviewing the Work Plan and will provide comments directly to the applicant on the Work Plan. The comments made regarding reclamation of the RO Ponds still stand.

Response: Noted.

4. Other Components, Updated CCP RTC– Several additional components of the Updated CCP are almost exclusively related to the abatement requirements of AP-27 and DP-55, and the requirements of the WQCC regulations. This includes Appendix B, Updated Contingency Plan, and Appendix E, Open Pit evaluation report. NMED will provide comments on these two Appendices directly to the applicant and incorporate any necessary changes to AP-27 and DP-55 as appropriate. NMED will copy MMD on all comments provided to the applicant related to the appendices.

Response: Noted.

5. Financial Assurance - The Updated CCP does not include a proposed cost estimate for the proposed reclamation activities. Following agreement on the scope of required surface reclamation activities that need to be completed prior to completion of water quality abatement, the applicant is required to provide a reclamation cost estimate to the Agencies for review. Financial assurance for these activities will be held jointly by NMED and MMD. In addition, NMED has requested an updated cost estimate for abatement activities associated with AP-27 and DP-55 in the recent renewal of DP-55, contingent on approval of the Updated CCP. NMED recommends scheduling a meeting with the applicant prior to submittal of the Updated CCP cost estimate to ensure agreement between the Agencies and the applicant on what components should be included in each cost estimate.

Response: Noted. Draft financial assurance is included as Attachment 7.

The following comments are specific to the Updated CCP:

1. Section 6.1 - This section states that 14.60 acres of disturbance are included in the pit waiver. This also needs to include the acreage associated with the open pit water body.

Response: See comments to MMD.

2. Section 6.2 – The applicant discusses corrective actions that need to take place on the Waste Rock Pile. The applicant submitted an updated Waste Rock Pile Work Plan (WRPWP) on December 27, 2021 to both NMED and MMD for review and approval. The agencies are still in the process of reviewing this work plan, but the description of corrective actions on the Waste Rock Pile in Section 6.2 are not consistent with what is proposed in the WRPWP. Please address these inconsistencies in the Updated CCP. The WRPWP should be used as the basis for Section 6.2.

Response: The approved workplan has been attached to supplement CCP Section 6.2.

3. Section 6.3 – Pursuant to Condition C.106A in DP-55, closure of the ARD treatment ponds can commence when they are no longer required as a component of the groundwater abatement systems. DP-55 requirements are not referenced in this section.

Response: DP-55 requirements are included in the attached CCP supplemental information.

4. Appendix H – Open Pit Waiver Justification Report – In general, NMED supports a pit waiver. The pit lake water body and groundwater surrounding the Open Pit will continue to be regulated under AP-27, which may require perpetual water treatment of the open pit water body in order to meet abatement water quality standards. NMED recognizes that additional source control measures can be taken (see Comment 1 under the RTC section above) to improve water quality conditions in the Open Pit. NMED also acknowledges that reclamation of the Open Pit high walls is not feasible. A pit waiver will release the Open Pit from the Mining Act and allow for continued regulation under the Water Quality Act pursuant to AP-27. That being said, additional justification is needed in Appendix F to explain the need for a pit waiver. NMED understands that the reason for a pit waiver is because the pit lake water body will not reach the elevation in the Open Pit as previously modeled. The original pit lake model indicated that the acid generating pit walls would be inundated by the pit lake, thereby causing reducing conditions in the pit lake which would help to minimize acid generation, sulfate and total dissolved solids leachate. Given the pit lake will not significantly increase in elevation and the pit walls cannot be reclaimed, abatement of the pit lake water body and surrounding groundwater will continue into the future.

Response: CCP Appendix F is the closure plan for the RO Evaporation pond, NMED must be referring to Appendix H. See **Attachment 5** Revised Appendix H.

NMED Summary Comment

NMED is withholding issuance of the environmental determination pending satisfactory applicant response to the comments herein.

Response: Noted

Response to Comments from New Mexico Environment Department Surface Water Quality Bureau; Alan Klatt

Request for Review and Comment, Cunningham Hill Mine, Updated Closure/Closeout Plan and Financial Assurance, Revision 20-1, Santa Fe County, New Mexico Mining Act Permit No. SF002RE

SWQB reviewed the updated Closure/Closeout Plan (CCP) dated October 2021. LAC incorporated and addressed SWQB's previous comments dated March 16, 2021 regarding the revised CCP dated October 2020. LAC included a request for a pit waiver that is subject to 19.10.5.507.B NMAC in the October 2021 CCP. The open pit lake and surrounding groundwater are subject to AP-27 and 20.6.2.4103 NMAC. SWQB will continue to work with GWQB to ensure that the appropriate surface water standards are established and achieved through AP-27.

Response: Thank you, noted

Response to Comments from New Mexico Environment Department Air Quality Bureau, Sufi Mustafa

Re: Request for Review and Comment, Revision 20-1, Updated Closure/Closeout Plan and Financial Assurance, Cunningham Hill Mine, LAC Minerals (USA), LLC, Santa Fe County, New Mexico, Mining Act Permit No. SF002RE

Air Quality Requirements

The New Mexico Mining Act of 1993 states that "Nothing in the New Mexico Mining Act shall supersede current or future requirements and standards of any other applicable federal or state law." Thus, the applicant is expected to comply with all requirements of federal and state laws pertaining to air quality.

20.2.15 NMAC, Pumice, Mica and Perlite Processing. Including 20.2.15.110 NMAC, Other Particulate Control: "The owner or operator of pumice, mica or perlite process equipment shall not permit, cause, suffer or allow any material to be handled, transported, stored or disposed of or a building or road to be used, constructed, altered or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne."

Paragraph (1) of Subsection A of 20.2.72.200 NMAC, *Application for Construction, Modification, NSPS, and NESHAP - Permits and Revisions*, states that air quality permits must be obtained by:

"Any person constructing a stationary source which has a potential emission rate greater than 10 pounds per hour or 25 tons per year of any regulated air contaminant for which there is a National or New Mexico Ambient Air Quality Standard. If the specified threshold in this subsection is exceeded for any one regulated air contaminant, all regulated air contaminants with National or New Mexico Ambient Air Quality Standards emitted are subject to permit review."

Further, Paragraph (3) of this subsection states that air quality permits must be obtained by:

"Any person constructing or modifying any source or installing any equipment which is subject to 20.2.77 NMAC, *New Source Performance Standards*, 20.2.78 NMAC, *Emission Standards for Hazardous Air Pollutants*, or any other New Mexico Air Quality Control Regulation which contains emission limitations for any regulated air contaminant."

Also, Paragraph (1) of Subsection A of 20.2.73.200 NMAC, *Notice of Intent*, states that:

"Any owner or operator intending to construct a new stationary source which has a potential emission rate greater than 10 tons per year of any regulated air contaminant or 1 ton per year of lead shall file a notice of intent with the department."

The above is not intended to be an exhaustive list of all requirements that could apply. The applicant should be aware that this evaluation does not supersede the requirements of any current federal or state air quality requirement.

Response: Noted

Fugitive Dust

Air emissions from this project should be evaluated to determine if an air quality permit is required pursuant to 20.2.72.200.A NMAC (e.g. 10 lb/hour or 25 TPY). Fugitive dust is a common problem at mining sites and this project will temporarily impact air quality as a result of these emissions. However, with the appropriate dust control measures in place, the increased levels should be minimal. Disturbed surface areas, within and adjacent to the project area, should be reclaimed to avoid long-term problems with erosion and fugitive dust. EPA's *Compilation of Air Pollutant Emission Factors, AP-42, "Miscellaneous Sources"* lists a variety of control strategies that can be included in a comprehensive facility dust control plan. A few possible control strategies are listed below:

Paved roads: covering of loads in trucks to eliminate truck spillage, paving of access areas to sites, vacuum sweeping, water flushing, and broom sweeping and flushing. Material handling: wind speed reduction and wet suppression, including watering and application of surfactants (wet suppression should not confound track out problems).

Bulldozing: wet suppression of materials to "optimum moisture" for compaction. Scraping: wet suppression of scraper travel routes.

Storage piles: enclosure or covering of piles, application of surfactants.

Miscellaneous fugitive dust sources: watering, application of surfactants or reduction of surface wind speed with windbreaks or source enclosures.

Response: Noted

Recommendation

The Air Quality Bureau has no objection to revised CCP and financial assurance.

This written evaluation does not supersede the applicability of any forthcoming state or federal regulations.

Response: Thank you, noted

Attachment 1.

Revised CCP Section 6.2 – Waste Rock Pile Reclamation Plan page 39 DP-55 Waste Rock Pile Workplan submitted December 27, 2021



LAC MINERALS (USA) LLC CUNNINGHAM HILL MINE RECLAMATION PROJECT 582 COUNTY ROAD #55 CERRILLOS, NM 87010 TELEPHONE: 505.471.0434

December 27, 2021

<u>CERTIFIED MAIL – RETURN RECEIPT REQUESTED</u> CERTIFIED NO. 7009 0960 0000 8419 0898

Mr. Brad Reid New Mexico Environmental Department Groundwater Quality Bureau 1190 South St. Francis Drive Santa Fe, NM 87502

RE: Response to Condition C101.D, Waste Rock Pile Workplan Discharge Permit 55 (DP-55) Cunningham Hill Mine Reclamation Project

Mr. Reid,

On September 9, 2021, LAC Minerals USA LLC (LAC) received a letter in response to a request for approval for the Waste Rock Pile (WRP workplan submitted on April 12, 2021. In response to comments received from New Mexico Environmental Department and Energy, Minerals and Natural Resources Department, LAC has prepared the enclosed updated workplan for your approval.

Should you have any questions or require further information, you can contact me at (775) 385-6411 or at jennifer.ortega@barrick.com.

Sincerely,

Dennif L'artega

Jennifer L Ortega Health, Safety and Environmental Superintendent

Enclosure

ec: Clark Burton, LAC Kevin Hamatake, LAC Daniel Lattin, LAC Brad Bingham, LAC Carmen Rose, NMED Ann Mauer, NMED Friends of Santa Fe County RE: Response to Condition C101.D, Waste Rock Pile Workplan, Discharge Permit 55 (DP-55), Cunningham Hill Mine Reclamation Project

On May 7, 2021, LAC Minerals USA LLC (LAC) received a letter in response to a request for approval for the Waste Rock Pile (WRP) work plan submitted on April 12, 2021. On September 9, 2021, NMED & EMNRD provided conditional approval contingent upon LAC responding to 6 joint agency comments. On October 12, 2021, LAC provided a letter responding to NMED & EMNRD September 9th comments. In response to the verbal feedback from agencies, LAC has prepared the following revised workplan, which incorporates response to agency comments for your approval.

1 Background

The Cunningham Hill Mine Reclamation Project (Site) is owned by LAC Minerals USA LLC (LAC), a subsidiary of Barrick Gold Corporation and is regulated by NMED pursuant to Discharge Permit 55 (DP-55) and Abatement Plan 27 (AP-27). Areas covered under DP-55 and AP-27 are in an un-surveyed portion of Township 13 North, Range 8 East and an un-surveyed portion of Township 13 North, Range 7 East in Santa Fe County, New Mexico.

The Waste Rock Pile (WRP) was created during the Cunningham Hill Mine open pit mining and heapleach operations between 1979 and 1987 and contains sulfide-bearing overburden removed from the Cunningham Hill Mine open pit. During 1991, Acid Rock Drainage (ARD) emerged at the toe of the unreclaimed WRP. ARD was collected and pumped back to the top of the un-reclaimed WRP until an interceptor wall and french drain collection system were installed in 1992. Intercepted ARD collected at the interceptor wall was piped to two HDPE lined collection ponds for managing ARD flows.

To prevent further generation and discharge of ARD to Dolores Gulch, reclamation of the WRP was performed between 1992 and 1996, and included re-contouring, addition of lime, placement of soil cover, construction of 5,000 ft of geosynthetic lined groin storm-water channels, and re-vegetation. Comparison of pre-development topography and post-reclamation topography shows that the WRP covers an area of approximately 72 acres, has an average depth of 60 ft, and a total volume of approximately 7 million cubic yards.

1.1 Waste Rock Pile Reclamation, 1992 to 1996

The surface of the WRP was filled and re-contoured in 1992 to achieve a 3H:1V slope with benches. Benches on the north slope were constructed at intervals of approximately 35 vertical feet and graded to drain to the geosynthetic lined rip-rap channel along the east groin of the Waste Rock Pile. Approximately 300,000 cubic yards (yd³) of rock fill material sourced from upper Cunningham Gulch were added to the Waste Rock Pile for re-contouring.

Approximately 8 to 10 inches of lime was applied to the re-contoured surface, followed by 18 inches of imported cover soil, spread evenly across the Waste Rock Pile. This cover was applied in two "lifts." The lower lift consisted of 6 to 8 inches of caliche subsoil that was a coarser material high in natural lime, while the upper lift consisted of 10 to 12 inches of topsoil composed of a sandy-clay loam material. In 1995, an additional 19,800 yd³ of cover soil was added to the north-slope area to improve storm-water runoff from the benches and replace eroded cover soil.

Approximately 13,300 tree and shrub seedlings were planted in 1994, and reclamation of the WRP was completed in 1996 when an additional 2,500 trees were planted along its north slope.

2 History of Improvements and Modifications:

2.1 Earthen Water Bars 2014

In 2014, to further reduce contact water, earthen water bars were added to the access road on the west side of the WRP. The 1-foot-high earthen water bars were installed at a 30° angle to divert stormwater away from the WRP into the natural drainage on the west groin.

2.2 Stormwater Collection System 2015

In April 2015, a stormwater collection system was constructed at the east end of four WRP benches (DBSA "As-Built Report, Stormwater Control Facilities and ARD Treatment Pond" May 15, 2015). The purpose of the system is to minimize infiltration of stormwater on the benches and at the east groin channel. The collection system was designed to capture stormwater flowing along the benches, place it in a pipeline, and convey it by gravity to a location downstream of the interceptor wall.

2.3 Waste Rock Pile Access Road 2015

In 2015, caliche was placed and compacted on approximately 1,000 ft of the WRP access roads at an average depth of 4 inches. Storm water controls were installed to reduce road maintenance and help preserve caliche on the road surface.

3 2019 JSAI Cover Evaluation and Recommendations

In response to increased ARD flows observed in the spring of 2019, John Shomaker & Associates, Inc (JSAI) was contracted to conduct an investigation and make recommendation to improve the facility performance and reduce ARD flows. The investigation included cross-sectional surveys of the East Groin drainage channel as well as a cover survey to assess the thickness of the cover on the north slope between the benches.

3.1 Key Observations

- Cover material has eroded in select areas of the North Slope resulting in rills in need of repair. Twenty-four soil borings were characterized across the North Slope of the WRP, with soil cover depths ranging from 6 to 32 inches with an average depth of 15 inches.
- Water bars on the west side of the North Slope are in good condition and appear to be working as designed.
- The storm-water benches on the North Slope are relatively flat and do not promote good drainage.
- The East Groin Drainage Channel geosynthetic clay liner (GCL), underlying the rip-rap channel, is in poor condition. The GCL was intended to prevent infiltration of surface water which runs off the WRP North Slope. There are observed holes in the liner, and the presence of moisture underneath the liner indicates it is no longer functioning as designed.

3.2 JSAI Recommendations

3.2.1 North Slope Cover

The thickness of the cover material is more important for the benches than the slopes due to the benches conveying storm water from the slopes and having relatively flat gradients that allow for infiltration of storm water. However, additional cover material should be installed where rills have locally eroded cover material from the slopes. The selection of replacement cover material should incorporate a combination of soil, angular aggregate, and mulch to minimize erosion and reestablish vegetation.

3.2.2 East Groin Drainage Channel

Repairs to the East Groin drainage are recommended to prevent infiltration of surface water into the WRP.

4 Waste Rock Pile Work Plan

4.1 East Groin Repair (completed)

In response to the recommendations made by JSAI, LAC initiated engineering of the East Groin repairs and submitted a proposed plan to inject chemical grout to seal the drainage channel and prevent infiltration. The work plan was submitted to NMED for approval on October 26, 2020. NMED approved the East Groin work plan on October 28, 2020, followed by approval from the Mining and Minerals Division (MMD) on November 2, 2020. Contractor proposals were solicited, and East Groin repair work commenced on Dec 14, 2020. Work was completed in April 2021.

Repairs completed on the East Groin are expected to significantly decrease surface water infiltration and the corresponding ARD flows at the interceptor wall.

4.2 North Slope

LAC Minerals and its contractors will visually inspect the benches and mark areas where rills require repair consistent with Site-Wide Performance Criteria SW-2: Erosion Control. Cover soil will be staged on the benches and rills on the North Slope will be repaired utilizing a skid-steer or similar equipment to complete repairs near the bench. Rills not accessible from the bench will be repaired by hand. Material will be compacted with hand tools and erosion control fabric will be deployed to minimize erosion until vegetation is reestablished on the slope.

Consistent with JSAI recommendations, no additional cover soil is proposed to be placed on the slopes, beyond the repair of rills. As indicated in the evaluation by JSAI, storm water sheds off the slopes and accumulates on the benches where infiltration is likely occurring. The proposed plan will maintain the integrity of the slope vegetation and minimize future erosion.

In addition to the JSAI recommendations, LAC also proposes to place additional cover material on North Slope benches and reestablish positive drainage on the benches. A survey of the benches has been completed for engineering of the bench re-sloping. The engineer will review the survey data in conjunction with the Isopach Map (Appendix 1) and evaluate the current drainage profiles and cross-sections along each bench to determine areas that will require additional fill to facilitate improved drainage across the benches. Benches will be designed to establish a nominal 1% slope to improve drainage to the East Groin.

LAC may also consider the feasibility of creating a grade breaks and re-sloping certain area of the benches towards the West Groin area if supported by survey data. Once grading plans have been completed, the team will calculate the amount of fill/borrow material required to achieve the proposed grades. This will be checked against calculations for available borrow material. Technical specifications will be developed for the cover soil and submitted with the design documentation for agency approval.

Additionally, LAC's internal hydrogeologist has completed a cover performance review (see Attachment 1) which concludes the cover system is performing well.

4.3 Cover Material

LAC will conduct an investigation of the existing stockpile materials located at the area identified in Appendix 2. A survey of the stockpile will be performed to determine available volume. Samples will be taken and tested for gradation and soil chemistry in order determine their ability to provide a suitable soil cover and growth medium.

Following is a list of tests that will be used to determine the suitability of the borrow material for the benches:

- ASTM C 136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
- ASTM D 2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
- ASTM D 3017 Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)
- Modified Sobek Acid Based Accounting
- MWMP (Meteoric Water Mobility Procedure)
- Extractable metals (As, Cd, Cu, Fe, Pb, Mn, Mo, Ni, B, Se and Zn), saturated paste pH and acidbased accounting.

The engineering design will include a materials handling plan that describes the existing stockpile materials and results of soil analysis testing listed above. Additionally, the engineering design will specify appropriate gradations for materials of construction and placement methods that are adequate to minimize infiltration, facilitate stormwater runoff and resist erosion.

4.4 Stockpile Area Reclamation

Following completion of the bench re-sloping and rill repairs, the stockpile area will be reclaimed by regrading to ensure positive drainage. The regraded area will be reseeded consistent with the plan as outlined in 4.5.

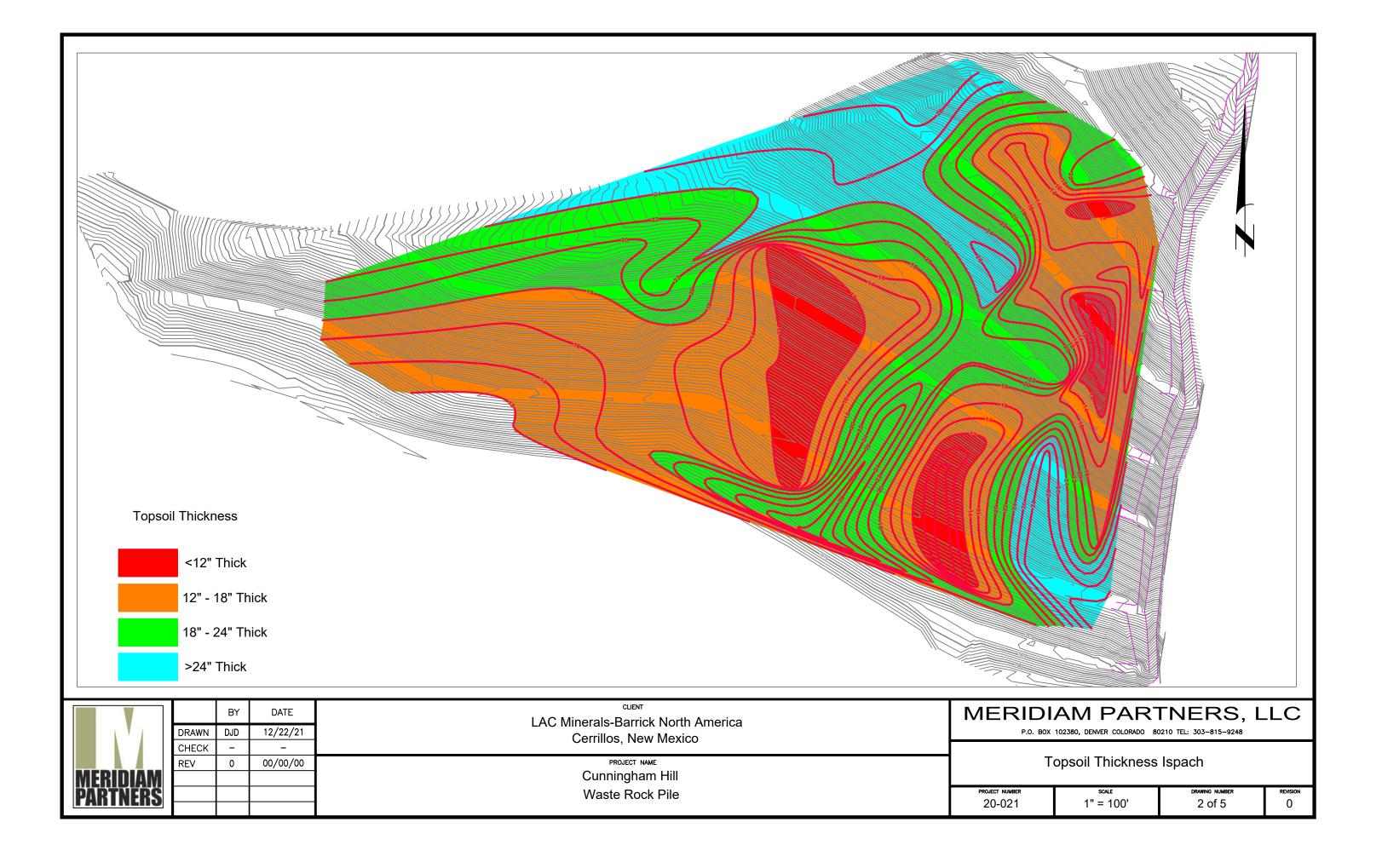
4.5 Seeding & Reclamation

LAC Minerals and its contractors will use the original seed mixes (Appendix 3) that was previously approved in the 1996 Closure/Closeout Plan (CCP) and proposed in the 2020 CCP. In addition, the team may submit recommendations for soil amendments, based on the results of the borrow material sampling program.

4.6 Schedule

	2021						2022													
Activity	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Work Plan Development																				
Submission and Approval of Work Plan																				
Field Assessment and Investigation (survey, soil sampling, map		_																		
Cover Performance Evaluation Memo																				
Engineering																				
Construction																				

Appendix 1 – Isopach Map





Appendix 2 – Stockpile Location

Cunningham Hill Mine Reclamation Project Seed Mix 1						
Species	Drill seed rate pure live seed (lbs./acre)	Species Characteristics				
blue grama; Bouteloua gracilis	2.0	warm season				
indian ricegrass; Oryzopsis hymenoides	1.0	warm season				
sideoats grama; Bouteloua curtipendula	1.0	warm season				
galleta; Hilaria jamesii	1.0	warm season				
sand dropseed; Sporobolus cryptandrus	0.25	warm season				
Great Basin wildrye; Elymus cinereus	2.0	cool season				
purple prairie clover; Petalostemum purpureum	0.2	Forb				
palmer penstemon; Penstemon palmeri	0.1	Forb				
lewis flax; Linum lewisii	0.5	Forb				
scarlet globemallow; Sphaeralcea coccinea	0.1	Forb				
TOTAL	8.15					

Cunningham Hill Mine Reclamation Project Seed Mix 2 for wetter and cooler site conditions							
Species	Drill seed rate pure live seed (lbs/acre)	Species Characteristics					
indian ricegrass; Oryzopsis hymenoides	2.0	cool season					
lewis flax; Linum lewisii	0.5	Forb					
purple prairie clover; Pentalostemum purpureum	0.5	Forb					
Rocky Mountain penstemon ;Penstemon strictus	0.5	Forb					
prairie coneflower; Ratibida columnifera	0.25	Forb					
TOTAL	6.25						

References

- [JSAI] John Shomaker & Associates, Inc., 2007, Evaluation of the effectiveness of existing remediation measures for the Waste Rock Pile and Dolores Gulch, as required by performance standards WRD-1 and WRD-4, and DP-55 Conditions 29, 30, and 42, Cunningham Hill Mine Reclamation Project: Consultant's report prepared by Steven T. Finch and Annie McCoy of John Shomaker & Associates, Inc. for LAC Minerals (USA) LLC, 37 p. plus illustrations and appendices.
- [JSAI] John Shomaker & Associates, Inc., 2011, Performance evaluation of Waste Rock Pile cover system, Condition 30, DP-55, Cunningham Hill Mine Reclamation Project: Consultant's report prepared by Steven T. Finch, Michael Jones, and Annie McCoy of John Shomaker & Associates, Inc. for LAC Minerals (USA) LLC, 14 p. plus illustrations and appendices.
- [JSAI] John Shomaker & Associates, Inc., 2019, 2018 Monitoring data review to evaluate the effectiveness of the grouted Interceptor Wall, Cunningham Hill Mine Reclamation Project, Santa Fe County, New Mexico: Consultant's report prepared by Annie McCoy and Steven T. Finch of John Shomaker & Associates
- [DBSA]Daniel B. Stephens & Associates, Inc. (DBS&A), 2015 As-Built Report Stormwater Control Facilities and ARD Treatment Pond, Cunningham Hill Mine Reclamation Project, Santa Fe County, New Mexico

Attachment 1 – 2021 Cover Performance Review

TO:	Clark Burton
COPY:	Kevin Hamatake
FROM:	Johnny Zhan, Ph.D.
DATE:	July 26, 2021
SUBJECT:	Cover Performance Review of the WRSF at Cunningham Mine (Final)

Background

The Cunningham Hill Mine (CHM) is located in Santa Fe County, New Mexico. The Waste Rock Storage facility (WRSF) was created during the Gold Fields CHM open-pit mining and heap-leach operations between 1979 and 1987, and contains 10 million tons of sulfide-bearing overburden removed from the CHM open pit. The WRSF covers an area of approximately 72 acres, has an average thickness of 60 ft, and a total volume of approximately 7 million yd³ (JSAI, 2014).

In 1991 Acid Rock Drainage (ARD) was discovered at the toe of the unreclaimed WRSF. In 1992, an interceptor and treatment system was installed to intercept alluvial and surface water in Dolores Gulch moving downgradient from the waste rock pile and to chemically treat this low pH water. The system consists of the following (Figure 1):

- An interceptor wall installed in bedrock across Dolores Gulch below the toe of the waste rock pile
- A collection system to transfer ARD collected at the interceptor wall via gravity to a lined collection pond
- A lime treatment system with lined settling ponds, and
- Two lined ponds to evaporate lime-treated water

To reduce/limit further generation and discharge of ARD to Dolores Gulch, reclamation of the WRSF was performed between 1992 and 1996, and included re-contouring, addition of lime, placement of soil cover, construction of 5,000 ft of geosynthetically lined groin storm-water channels, and re-vegetation.

The surface of the WRSF was filled and re-contoured in 1992 to achieve a 3H:1V slope with benches. The WRSF was covered in two steps. First, a layer of lime at 20 to 60 tons per acre was spread over the surface of the waste rock pile and disked into the waste rock material, which resulted in an 8 to10-inch layer. Then an 18-inch thick layer of cover soil was applied and seeded (JSAI, 2020b).

In 1995, the north-slope area was re-contoured and an additional 19,800 yd³ of lime and cover soil were added to 7.2 acres (Schafer and Associates, 1996). The purpose of the re-grade was to improve stormwater runoff from the benches, to replace eroded cover soil, and increase vegetative cover.

Four diversion structures were constructed to route surface water run-on from upgradient watersheds across and around the WRSF. Benches on the north slope were constructed at intervals of approximately 35 vertical feet and graded to drain to the rock-lined ditch along the east groin of the WRSF (JSAI, 2014; JSAI, 2020b).

During February 2010, a weir box equipped with a transducer was installed on the line to ARD Collection Pond A. Continuous monitoring of ARD flows has been ongoing since March 2010.

In 2015 storm-water runoff from the north slope of the WRSF was evaluated and improvements were made to shed stormwater to the west along the western edge and to convey collected storm water into HDPE piping along the East Groin Channel. North slope storm-water runoff direction is illustrated on Figure 1.

MEMORANDUM

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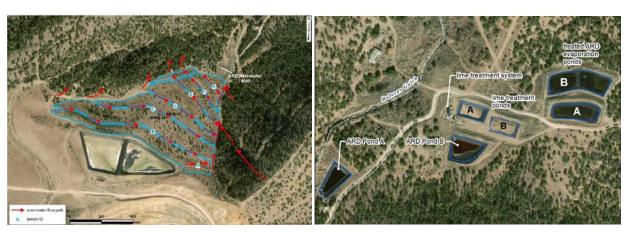
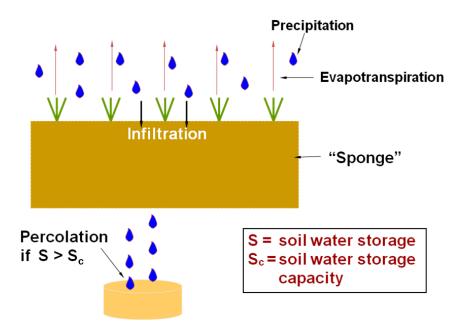


Figure 1. Stormwater flow diversion from benches on the north slope of the WRSF (left) and ARD Treatment Facilities (right)

This technical memorandum describes the working principals of a cover system and its controlling factors. It also reviews the cover performance and presents a loosely calibrated seepage model.

Cover Design Concept

A primary goal in cover design is that evapotranspiration (ET) from the cover will remove nearly all of the precipitation infiltrating into the cover each year, leaving an empty "sponge" that is able to store infiltrated water the following year. The "sponge" concept is illustrated on Figure 2.





The cover was designed to reduce the infiltration of surface water into the waste rock pile and to provide the growth medium necessary to support revegetation. Seepage monitoring results since March 2010 indicate that seepage has been small and, most of the time, near zero. Vegetation monitoring results indicate that revegetation efforts have been successful.

Site Climate Conditions

The climate at CHM is semi-arid, characterized by dry, hot summers and cold winters. The region has medium annual precipitation, low relative humidity, clear skies, and large diurnal temperature variations because of the altitude and the dryness of the air. Monthly precipitation is relatively even through the year, with slightly higher precipitation in July and August.

CHM maintains a weather station on top of the reclaimed waste rock pile. Annual precipitation ranged from 8.72 to 18.55 inches per year with an average of 14.13 inches per year for the period 2011 – 2019 (JSAI, 2020a).

Access to the National Land Data Assimilation System (NLDAS) (Mitchell et al., 2004) gridded weather data on the Google Earth Engine (GEE) cloud computing platform provides an estimate of historical daily precipitation, reference evapotranspiration (ETo) and temperature from 1979 to present. ETo is calculated using the Penman-Monteith-FAO method (FAO, 1998). The Desert Research Institute (DRI) in Reno, Nevada has developed Python and JavaScript programs that are executed on the GEE to rapidly process NLDAS gridded weather data for estimating Precipitation, ETo and temperature (Huntington, personal communication, 2020).

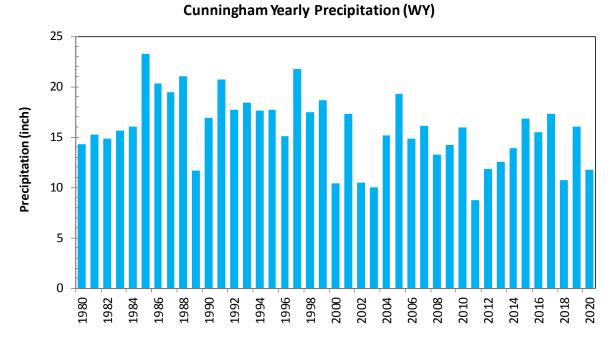
Daily NLDAS weather data available on the GEE were spatially disaggregated to a 4 km spatial resolution by Abatzoglou (2011) based on the Parameter Regression on Independent Slopes Model (PRISM) (Daly, 2008).

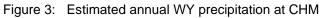
Daily temperature, precipitation and ETo at CHM (-106.136 Longitude, 35.338 Latitude) were estimated using the DRI technique for the period of Jan, 1979 through May, 2021 by accessing the Climate Engine (<u>http://clim-engine.appspot.com/</u>).

The estimated average monthly precipitation, ETo and temperature are listed in Table 1 and illustrated on Figures 3 and 4. Figure 3 illustrates precipitation for the Water Year (WY), which begins October 1 of previous year and ends September 30 of the designated year.

Month	Precipitation (Inch)	Average Temperature (Degree C)	ETo (PET) (Inch)
Jan	0.8	-0.5	1.9
Feb	0.7	1.8	2.4
Mar	1.0	5.4	4.1
Apr	0.9	9.2	5.6
May	1.2	14.0	7.3
Jun	1.1	19.7	8.3
Jul	2.6	21.3	7.4
Aug	2.4	20.2	6.5
Sep	1.6	16.7	5.4
Oct	1.4	10.5	4.1
Nov	0.9	3.9	2.5
Dec	1.0	-0.4	1.8
Total /Average	15.7	10.2	57.3

Table 1: Estimated Average Monthly Precipitation, Potential Evapotranspiration (PET, or ETo) and Temperature at CHM using Climate Engine





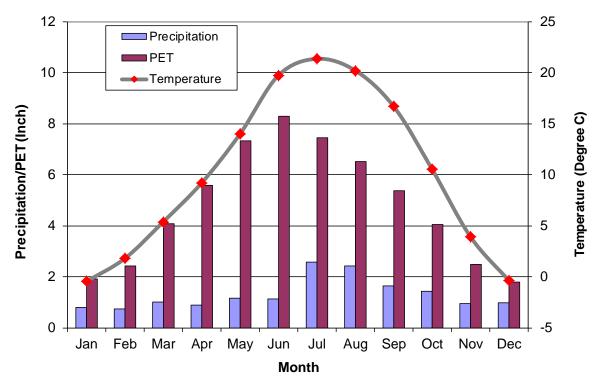


Figure 4. Estimated average monthly precipitation, ETo (PET) and temperature at CHM

Cover System

In 2007, JSAI performed a soil cover survey, total cover thickness survey, and visual inspection of stormwater controls on the WRP, and Cedar Creek Associates, Inc. performed a vegetative cover survey.

2007 Vegetative Cover Survey: The vegetative cover survey was performed at 20 survey locations, and the ground cover survey of live vegetation was measured as 37 percent, which is greater than the 34 percent required for reclamation (JSAI, 2014).

2007 Soil Cover Survey: The soil cover survey was performed at 20 survey stations (Fig. 5). Samples were taken at four stations for laboratory sieve analysis (JSAI, 2014). Eleven of the measurements were on benches, five of the measurements were on the slopes, and four of the measurements were on the top of the WRP.

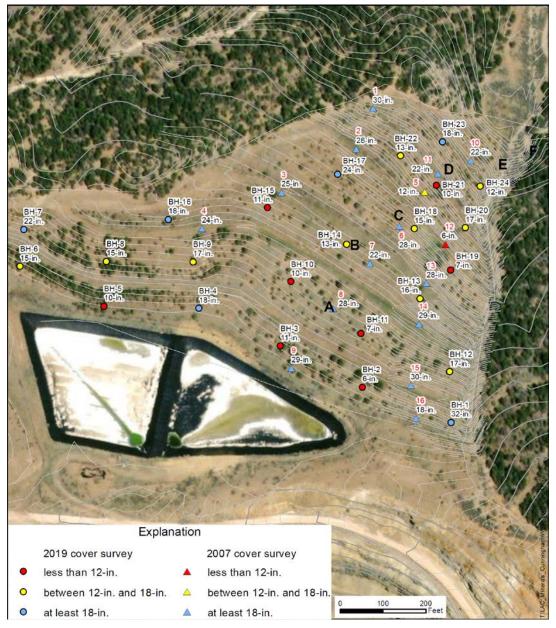


Figure 5. Aerial photograph of WRSF north slope area showing cover survey locations and results

Figure 6 shows the Particle Size Distribution (PSD) Curves of four samples. Soil was found to be moderately- to well-sorted and generally dominated by silt- and clay-size material (<0.074 mm). This very fine-grained material is likely to have low permeability and high water-holding capacity.

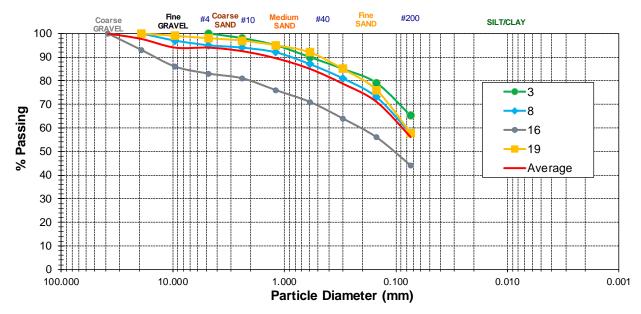


Figure 6. Individual and average PSD curves of 4 samples in 2007 soil survey

Total cover was found to be 1.5 ft thick or more at 18 out of 20 stations (Figure 7). The average thickness was about 24 inches. Other statistics of the 2007 cover thickness are shown on a box plot (Figure 8). Another WRSF soil survey was performed in 2019 by JSAI (JSAI, 2019), which primarily focused on the slopes (Figure 5). A comparison of 2007 and 2019 cover thickness measurements for similar locations on the slope indicates that the net difference is small, less than an inch.

Total cover generally consisted of at least 1 ft of soil dominated by clay and silt, with low permeability, and a coarser base material consisting of gravel and cobbles with a sand or clay matrix.

If water-holding capacity, the difference between field capacity and volumetric water content corresponding to wilting point, is conservatively assumed to be 8%, the cover can hold at least 2 in (24 x 8%) of precipitation in the cold season. Considering that monthly potential evapotranspiration exceeds average precipitation for each month of the year, including the cold season, 2 inches of water-holding capacity is sufficient to prevent significant percolation into the underlying waste rock.

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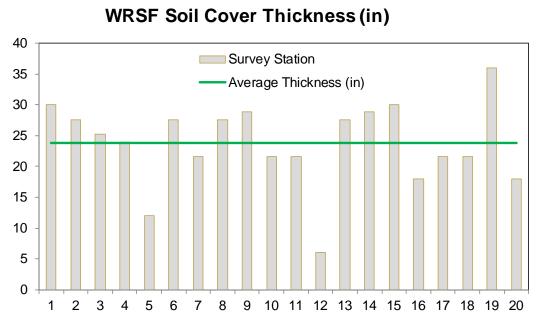
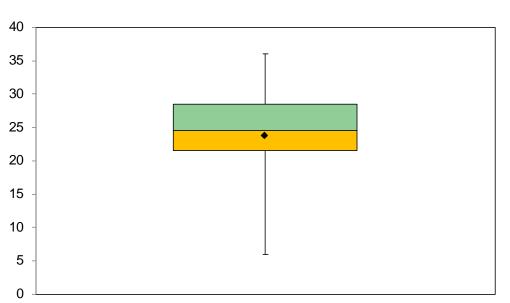


Figure 7. Cover thickness and average thickness at 20 stations in 2007 soil survey



WRSF Soil Cover Thickness (in)

Figure 8. Box Plot of cover thickness at 20 stations in 2007 soil survey

Observed WRSF ARD Seepage

ARD seepage has been identified and collected since 1991. Continuous monitoring of ARD flows using a weir box equipped with a transducer has been ongoing since March 2010. Figure 9 shows monthly ARD

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seepage from March 2010 to April 2021. Figure 10 shows the annual ARD seepage from WY 2011 to 2020.

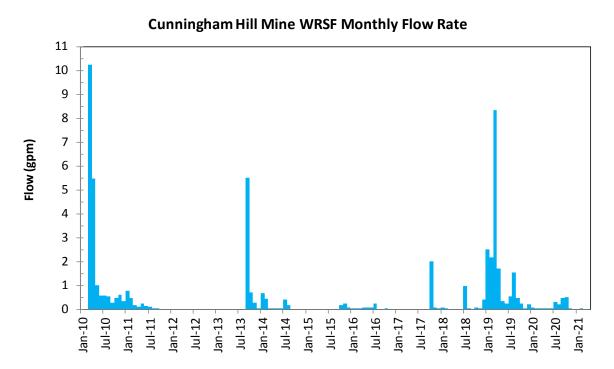


Figure 9. Monthly ARD seepage (March 2010 to April 2021)

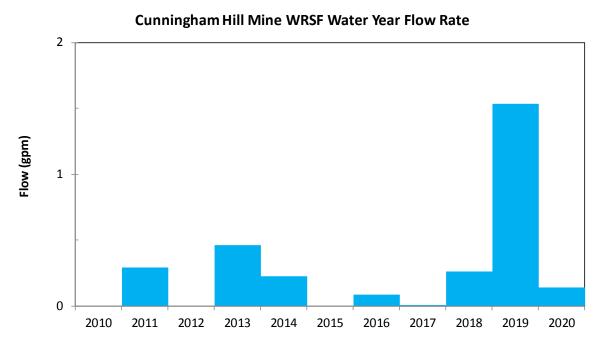


Figure 10. Annual ARD seepage (WY 2011 to 2020)

In most months there has been no seepage (Figure 9). For some entire years with low precipitation, no seepage was observed (Figure 10).

Average seepage is about 0.3 gpm, or 0.48 acre-ft/yr. Considering the facility footprint of 72 acres, the infiltration rate is only 0.08 in/yr (0.48/72x12), or 0.5% of precipitation (0.08/15.7). Meteoric infiltration is nearly eliminated.

WRSF ARD Seepage Modeling

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Attempting to reproduce the observed seepage flows with a model, when flow is zero for many months and some entire years, is challenging, if not impossible. Recognizing the challenge, without overcomplicating the numerical model, a yearly time-step, spreadsheet-based water balance model (GR1A) was created.

The GR1A model is a single-parameter global rainfall-discharge model (Mouelhi et al., 2006). The model considers the close inter-relationship between precipitation, PET, and cover net infiltration on an annual scale with continuous feedback of water movement in the soil-plant-atmosphere continuum.

The structure of the model is a simple equation: The ARD seepage Q_k of WY k is proportional to the precipitation P_k of the same year, precipitation P_{k-1} in year k-1 and annual potential evapotranspiration PET of WY k. The model is written as:

$$Q_{k} = P_{k} \left\{ 1 - \frac{1}{\left[1 + \left(\frac{0.7P_{k} + 0.3P_{k-1}}{X * PET_{k}} \right)^{2} \right]^{0.5}} \right\}$$
(1)

Where:

- Q_k is the simulated seepage of year k
- P_k is the observed precipitation of year k
- P_{k-1} is the observed precipitation of year k-1
- PET_k is the potential evapotranspiration of year k
- X is the parameter of the model to calibrate

The model has only one optimizable parameter, the dimensionless X, which appears as a modulating coefficient of potential evapotranspiration. It was found that the median of X is 0.7 and an interval of 90% confidence is given by the range of 0.13 to 3.5 (Mouelhi et al., 2006).

The model was calibrated to match the observed annual average flow rate of 0.3 gpm with X=2.05.

Considering the simplicity of the model, it does a reasonable job by producing same average flow (0.3 gpm) and a pattern mimicking wet/dry cycles (Figure 11).

MEMORANDUM



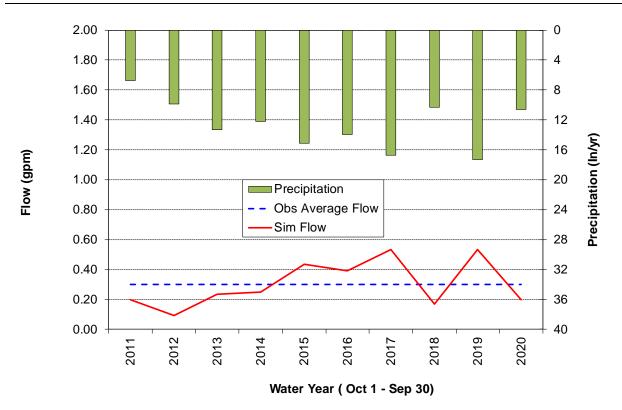


Figure 11. Observed average seepage and modeled annual seepage vs WY precipitation

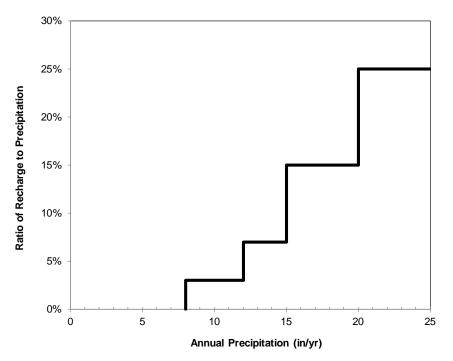
Discussion and Summary

The Maxey-Eakin method (Maxey and Eakin, 1949) is an empirical groundwater recharge estimate approach widely used in the western US. The method assumes that no recharge occurs in areas receiving less than 8 in/yr of precipitation. When annual precipitation is greater than this threshold, groundwater recharge is a fraction of annual precipitation and the fraction increases with increasing precipitation, resulting in a hypothetical curve relating annual groundwater recharge to annual precipitation (Figure 12).

The observed seepage rate of 0.5% of precipitation during the period of WY 2011 to 2020 for average annual precipitation of 15.7 in/yr is much lower than the expected recharge (8%), indicating the cover system at CHM performs well.

MEMORANDUM

BARRICK





CHM is located in a relatively dry area with a precipitation to potential evapotranspiration (P/PET) ratio of 0.27 (15.7/57.3). Apiwantragoon et al. (2015) present a comprehensive review of the field-scale performance of landfill ET covers at 12 sites across the United States. Test sections were constructed at these sites with large (33×66 ft) drainage lysimeters for continuous and direct monitoring of the ET covers over a period of 3 to 6 years. The diversity in climates is evident in the range of average annual precipitation (4.72 to 49.61 inches) and the range in P/PET (0.06 to 1.10). The study concludes that net percolation is highly sensitive to the annual P/PET ratio. When P/PET is less than 0.30, net percolation is generally low.

Figure 13 is adapted from Apiwantragoon et al. (2015) and shows their data (named as ACAP) and other available field data measurements. When the P/PET ratio is 0.27, such as at CHM, the expected net percolation is in the range of 0.1 - 90 mm (0.004 - 3.54 inches) per year (redline on Figure 13). The simulated and measured net percolation at CHM of 2 mm (0.08 inch) per year is well within this range (green dot on Figure 13) and better than the expected 3 mm/yr for an optimum cover design.

In summary, the cover system installed at CHM WRSF is performing well, with only limited seepage occurring during wet periods. It is expected that the improvements to the East Groin Channel completed in 2020 and 2021 will further reduce the toe seepage to a minimal level (~ 0.2 gpm).

MEMORANDUM

BARRICK

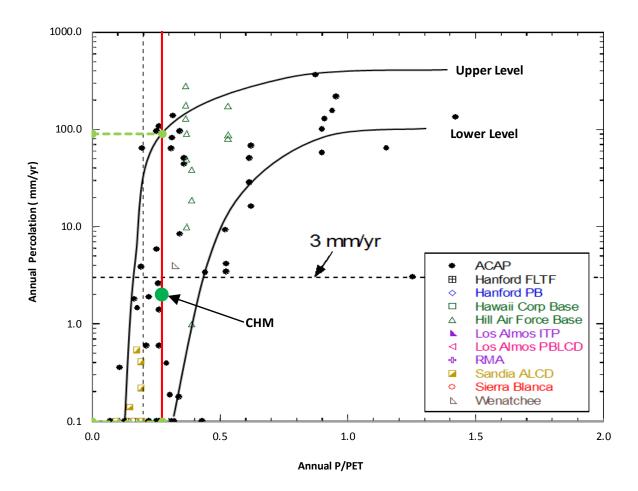


Figure 13. Annual percolation as a function of ratio of annual P/PET from CHM cover, ACAP covers and other studies (adapted from Apiwantragoon et al. 2015)

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Attachment 2.

Revised CCP Section 6.2 – Waste Rock Pile Reclamation Plan page 39 WRPWP timeline (approved)



LAC

LAC MINERALS (USA) LLC CUNNINGHAM HILL MINE RECLAMATION PROJECT 582 COUNTY ROAD #55 CERRILLOS, NM 87010 TELEPHONE: 505.471.0434

March 1, 2022

<u>CERTIFIED MAIL – RETURN RECEIPT REQUESTED</u> <u>CERTIFIED NO. 7009 0960 0000 8419 0911</u>

Ms. Anne Maurer New Mexico Environmental Department Groundwater Quality Bureau 1190 South St. Francis Drive Santa Fe, NM 87502

<u>CERTIFIED MAIL – RETURN RECEIPT REQUESTED</u> <u>CERTIFIED NO. 7009 0960 0000 8419 0904</u>

Ms. Carmen Rose Mining and Minerals Division Mining Act Reclamation Program 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Waste Rock Pile Workplan Updated Schedule Discharge Permit 55 (DP-55) and Abatement Plan 27 (AP-27) Cunningham Hill Mine Reclamation Project

Ms. Maurer and Ms. Rose,

On February 16, 2022, LAC Minerals USA LLC (LAC) received approval of the December 27, 2021 Waste Rock Pile Workplan. As requested in the approval letter enclosed is an updated schedule, which includes the completion of the Field Assessment and Investigation Report.

Should you have any questions or require further information, you can contact me at (775) 385-6411 or at jennifer.ortega@barrick.com.

Sincerely,

ennifer Ortega

Jennifer L Ortega Health, Safety and Environmental Superintendent

Enclosure



LAC MINERALS (USA) LLC CUNNINGHAM HILL MINE RECLAMATION PROJECT 582 COUNTY ROAD #55 CERRILLOS, NM 87010 TELEPHONE: 505.471.0434

ec: Joe Fox, Acting Program Manager, NMED-MECS Holland Shepherd, Program Manager, EMNRD-MMD Kevin Myers, EMNRD-MMD Dave Wycoff, LAC Clark Burton, LAC Friends of Santa Fe County Clark Burton, LAC Kevin Hamatake, LAC Daniel Lattin, LAC Brad Bingham, LAC

Cunningham Hill Waste Rock Pile Workplan Scheudle

Activity			2022										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Submission and Approval of Updated Work Plan													
Field Assessment and Investigation Report (soils data, engineering)													
Construction													

Attachment 3.

Revised CCP Section 6.5 – Growth Medium for Final Reclamation page 39 Revised Table 6

area	total volume (yd ³)
Open Pit ¹	450
Waste Rock Pile ²	700
RO Ponds	2,200
ARD Treatment Facility	2,420
Residue Pile Remediation Ponds	2,000

Revised Table 1. Growth medium volume requirements

¹ imported caliche to complete in pit reclamation of western road ² includes material to complete WRPWP

Attachment 4.

Revised CCP Section 6.8.1 - grassland-revegetated vs. woodland-revegetated units of the remaining units in Permit No. SF002RE. Cedar creek Associates (2021) report

Cunningham Hill Reclamation Project LAC Minerals (USA) LLC

2020 REVEGETATION EVALUATION REPORT

DECEMBER, 2020



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Appendix A – Methodology Appendix B – Raw Data

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LAC Minerals (USA) LLC

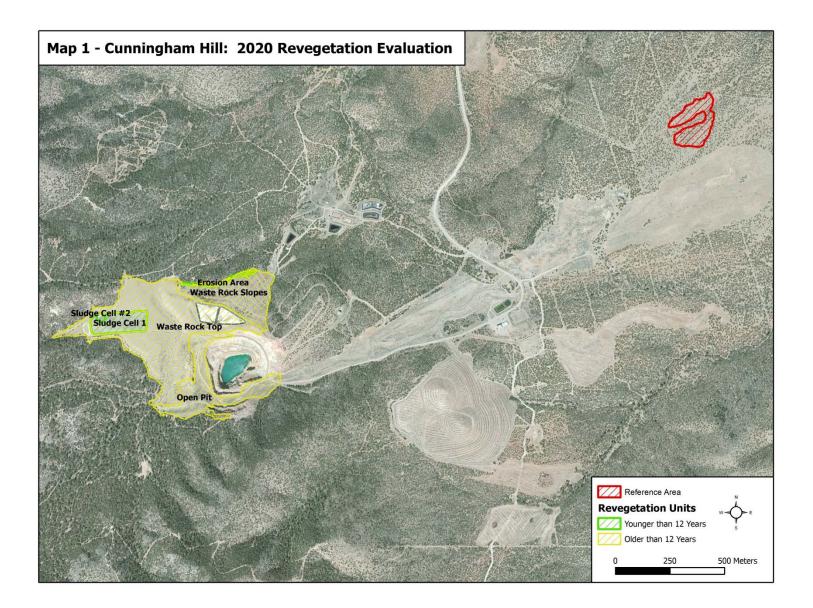
Cunningham Hill Reclamation Project

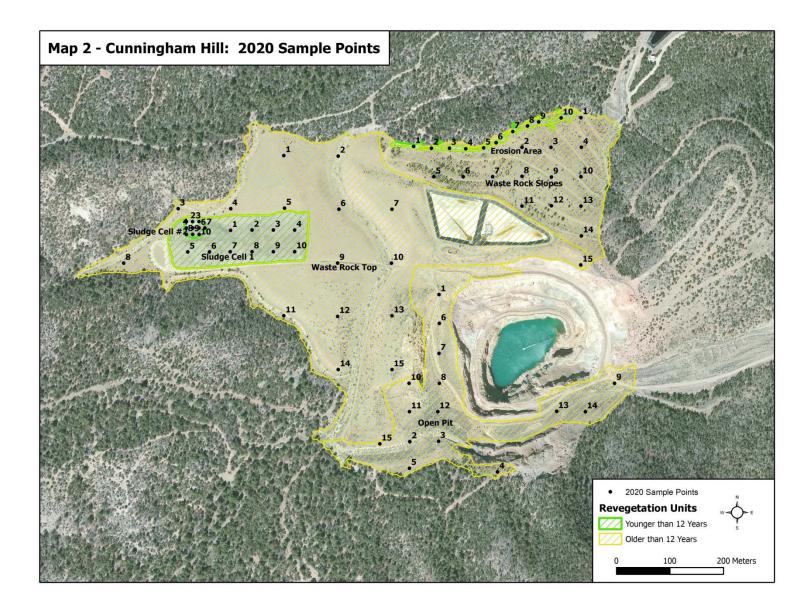
2020 REVEGETATION EVALUATION REPORT

1.0 INTRODUCTION

1.1 General

In 2020 LAC Minerals (USA) LLC's (LAC) retained Cedar Creek Associates, Inc. (Cedar Creek) to evaluate revegetation efforts across the mine site for monitoring purposes. A reference area, established and approved by the Mining and Minerals Division (MMD) in 1997, was sampled to facilitate comparison. Revegetation evaluation was conducted in accordance with the approved close-out plan for the Cunningham Hill Reclamation Project. Sampling was conducted on September 29, 2020 by or under the direct supervision of Cedar Creek's Senior Reclamation Ecologist, Mr. Jesse H. Dillon. Revegetation evaluation occurred in the following areas: Erosion Area, Sludge Cell Areas 1 and 2, Open Pit Area, Waste Rock Top Area, Waste Rock Slope Area, and Reference Area. Area locations are presented on Map 1; transect locations are noted on Map 2. Sampling methodologies are presented in Appendix A.





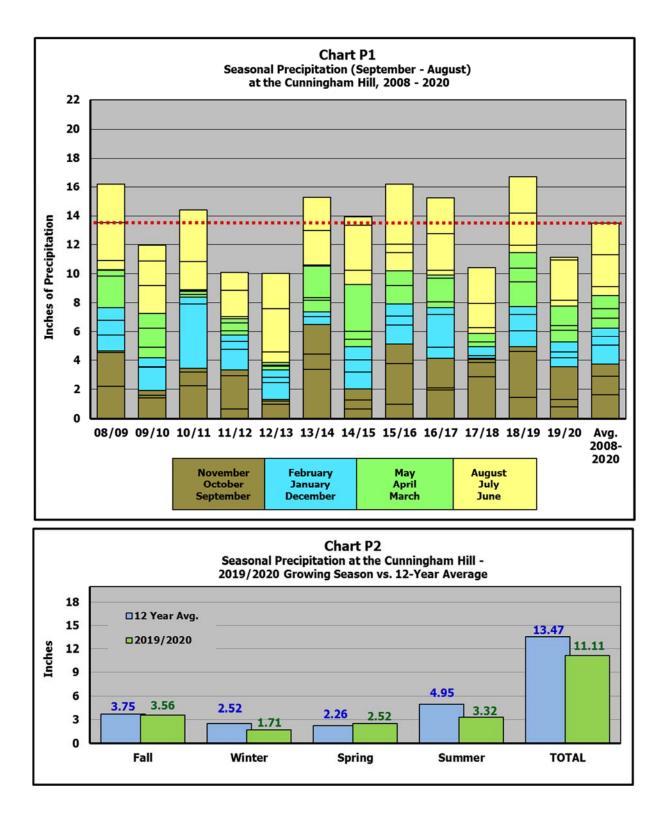
1.2 Precipitation

Table P presents precipitation accumulated annually at the Cunningham Hill Reclamation Project over the past 13 years. Chart P1 displays the seasonal precipitation over the historical record and Chart P2 displays 2019/2020 seasonal precipitation in comparison with the 12 year average. The overall average annual precipitation for the past 13 years is 13.36 inches while the monthly average precipitation levels ranges from 0.60 in April to 2.28 inches in August. This indicates that the growing season at Cunningham Hill Reclamation Project relies on monsoonal precipitation. Average winter precipitation is 2.52 inches while spring, summer, and fall averages 2.26, 4.95, and 3.75 inches, respectively.

Examination of Chart P2 indicates that precipitation for the seasons prior to sampling can be considered slightly below average (2019/2020 precipitation was 82% of 12 year average). The winter and summer of the 2019/2020 growing season received below average precipitation with 68% and 67% of normal levels, respectively. Spring and fall precipitation was approximately average, at 111% and 95%, respectively. The month preceding sampling in September was well below average with 0.18 inches (8% of average) of precipitation for August; however July was above average with 2.74 inches (126% of average). Overall, conditions should be considered somewhat less favorable for the revegetation progress with plants exhibiting slightly below average production and vigor.

Table P - An	Table P - Annual Precipitation at the Cunningham Hill, 2008 - 2020												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2008	1.52	0.95	0.33	0.27	0.47	0.73	2.07	3.85	2.21	2.34	0.11	1.13	15.98
2009	1.01	0.88	2.17	0.39	0.06	0.61	2.61	2.71	1.42	0.18	0.31	1.6	13.95
2010	0.03	0.64	0.72	1.36	1.01	1.91	1.7	1.07	2.23	0.95	0.28	4.45	16.35
2011*	0.03	0.45	0.2	0.21	0.07	0.04	1.92	3.58	0.65	2.29	0.38	1.44	11.26
2012*	0.54	0.47	0.3	0.53	0.31	0.15	1.82	1.22	0.97	0.23	0.08	1.18	7.80
2013*	0.37	0.49	0.28	0.08	0.17	0.72	3.02	2.46	3.38	1.05	2.08	0.55	14.65
2014*	0	0.33	0.78	0.20	2.17	0.08	2.35	2.32	0.65	0.60	0.78	1.15	11.41
2015*	0.86	0.89	0.52	0.59	3.22	1.01	3.07	0.60	0.98	2.78	1.36	1.34	17.22
2016*	0.64	0.82	0	1.27	1.04	1.22	0.59	4.17	1.95	0.14	2.03	0.78	14.65
2017*	2.29	0.47	0.4	1.66	0.19	0.33	2.53	2.48	2.87	0.98	0.20	0.08	14.48
2018^	0.18	0.61	0.33	0.00	0.65	0.39	1.67	2.46	1.45	3.16	0.34	1.11	12.35
2019^	1.12	0.56	1.71	0.95	1.05	0.51	2.22	2.55	0.78	0.50	2.28	0.63	14.86
2020^	0.37	0.71	0.85	0.30	1.37	0.40	2.74	0.18	0.69	0.87	0.21		8.69
2008-2020 Avg.	0.69	0.64	0.66	0.60	0.91	0.62	2.18	2.28	1.56	1.24	0.80	1.19	13.36

^ Precipitation data from Santa Fe 15.7 SSW, NM NOAA Station - Closest proximity data available for dates listed



2.0 REVEGETATION STANDARDS

In accordance with Cunningham Hill's Closeout Plan, revegetated units, planted as shrubland or woodland with woody plants for wildlife habitat, must meet performance standards for ground cover, species diversity, and woody plant density. Revegetation efforts will be considered successful when all standards have been met at the end of the 12-year liability period.

1. Vegetative Ground Cover Standard

Vegetative ground cover must meet at least one of the following two tests:

a) the total vegetative ground cover (exclusive of annual species) in the revegetated unit equals or exceeds <u>75 percent</u> of the approved reference area's total vegetative ground cover (exclusive of annual species), with 90 percent statistical confidence; or

b) the total vegetative ground cover (exclusive of annual species) in the revegetated unit equals or exceeds <u>50 percent</u> of the approved reference area's total vegetative cover (exclusive of annual species) with 90 percent statistical confidence, <u>and</u> predicted values of soil loss using the Revised Universal Soil Loss Equation (RUSLE) are equal to or less than the comparison "T" value, which essentially is the soil genesis rate in tons per acre per year.

2. Species Diversity Standard

Species Diversity Standard, as described in the close out plan, requires all non-annual (perennial and biennial) species that contribute at least 2% <u>relative</u> cover (composition) <u>or</u> at least 1% <u>average</u> cover must be tallied. Important species on revegetation units must be greater than 50% of the reference area's important species.

3. Woody Plant Density Standard

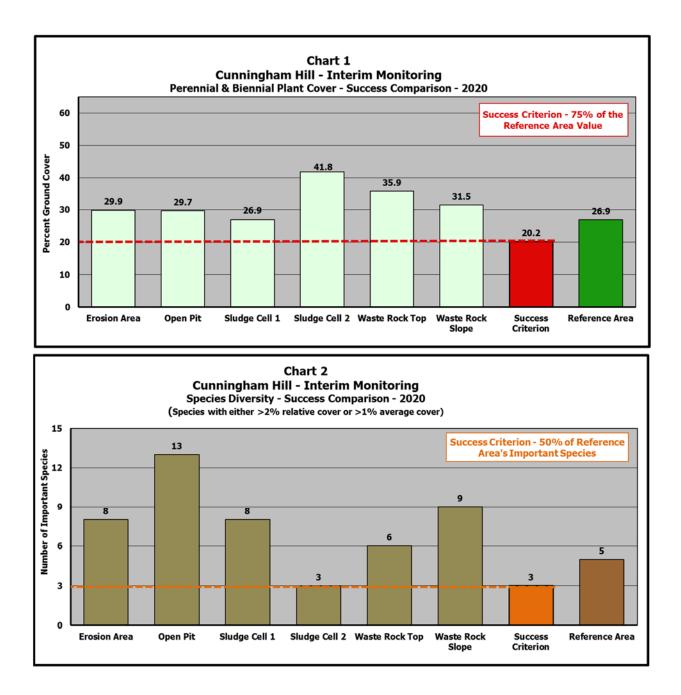
Woody Plant Density Standard requires the sampled area to exhibit 220 or more live woody plants per acre suitable for wildlife habitat.

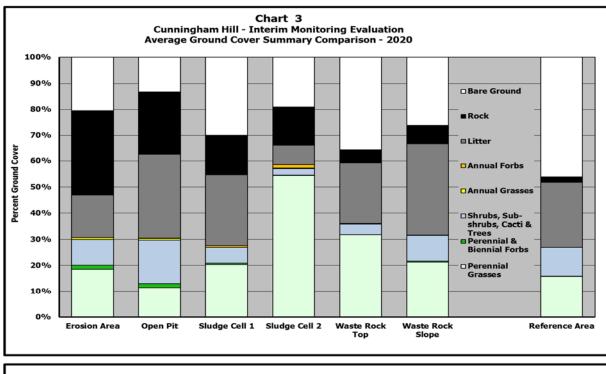
3.0 RESULTS

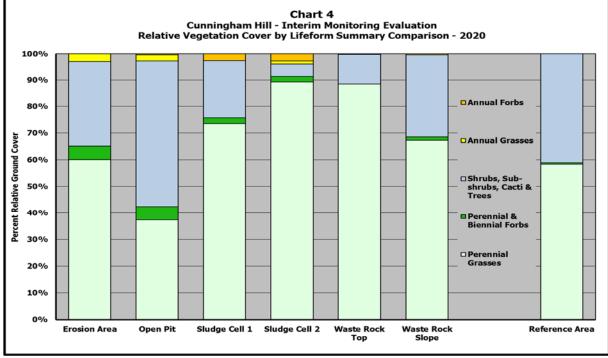
3.1 Summary

Ground cover data and associated species diversity collected from the Erosion Area, Open Pit Area, Sludge Cell's 1 and 2, Waste Rock Top and Slope Areas, and the Reference Area have been organized, summarized, and presented on a variety of tables and charts at the rear of this document.

Review of the 2020 revegetation evaluation results indicate that the Open Pit Area and the Waste Rock Top and Slope Areas are in excellent condition and readily pass bond release standards for ground cover and species diversity. The Sludge Cell 1, Sludge Cell 2, and Erosion areas are exhibiting favorable plant community development and are progressing toward bond release standards. Summary comparison data presented on Tables 1 - 3 as well as Charts 1 - 5 indicate that in response to LAC's revegetation effort, these areas show excellent revegetation establishment and perennial plant community development. Raw data can be found in Appendix B.







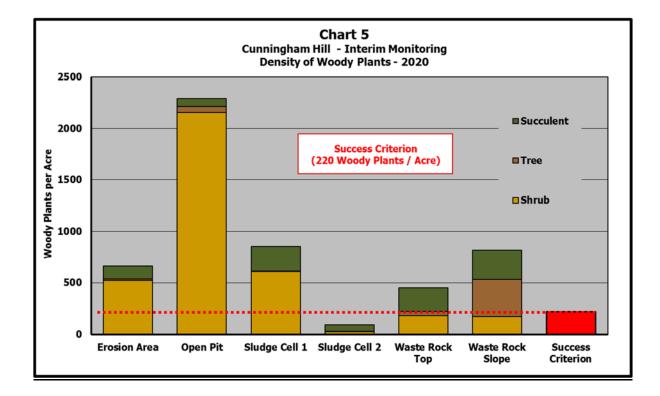
	am Hill - 2020	-				_	_	
Average Cover Summ	ary - Interim Monitor	ing						
				1	Ground Cove	er Based on	Point-Interce	pt Sampli
	Area Sampled>	Erosion	Open Pit	-	Sludge Cell	Waste Book Ton	Waste Book Slope	Referen
Scientific Name	Common Name	Area	-	1	2	Rock Top	Rock Slope	Area
rasses and Grass - likes								
Agropyron dasystachyum	Thickspike wheatgrass	-	-	3.30	-	1.07	1.73	-
P Agropyron smithii	Western wheatgrass	0.40	0.67	3.00	3.80	2.73	0.60	-
P Agropyron spicatum	Bluebunch wheatgrass	-	-	-	-	-	0.87	-
P Aristida purpurea	Purple three - awn	0.20	0.07	0.10	-	-	-	-
P Bouteloua curtipendula	Sideoats grama	1.90	5.93	2.50	0.70	16.80	4.73	-
P Bouteloua gracilis	Blue grama	11.80	2.07	6.50	33.80	9.67	4.27	15.
P Bromus inermis	Smooth Brome	-	0.07	0.20	0.20	1.47	0.20	-
A Bromus japonicus	Japanese Brome	0.90	-	-	-	-	0.13	-
Bromus tectorum	Cheatgrass	-	0.67	-	0.50	0.07		-
P Elymus cinereus	Great basin wildrye	-	0.20	-	-	-	-	-
P Hilaria jamesii P Koeleria cristata	Galleta	1.40 -	0.47	-	-	0.07	8.07	0.0
 Koeleria cristata Muhlenbergia wrightii 	Prairie Junegrass Spike muhly	-	0.27	-	-	-	0.47	-
Oryzopsis hymenoides	Indian Ricegrass	- 0.30	0.27	1.10	0.40	-	_	-
Schizachyrium scoparium	Little bluestem	2.00	_	-	- 0	_	0.27	
Sitanion hystrix	Bottlebrush Squirreltail	0.50	0.93	_	_	-		0.0
Sporobolus airoides	Alkali Sacaton	-	0.73	0.50	0.10	-	-	-
P Stipa neomexicana	New Mexico Feathergrass	-	-	3.10	0.10	-	0.07	-
orbs	· · · · · · · · · · · · · · · ·							
			0.07					
P Euphorbia sp.	Sandmat	-	0.07	-	-	-	-	-
A Ipomopsis longiflora A Machaeranthera canescens	Flaxflowered ipomopsis	-	0.07 0.07	0.70	0.10	-	-	-
A Machaeranthera canescens B Melilotus officinalis	Hoary tansyaster Yellow Sweetclover	-	0.07	0.70	0.10	-	0.07	-
Penstemon palmeri	Palmer Penstemon	0.20	1.20	- 0.30	0.20		0.07	
P Petalostemon purpureum	Purple prairie clover	0.20	-		_		0.20	_
A Salsola tragus	Russian Thistle	-	-		1.10		-	-
P Solanum elaeagnifolium	Silverleaf nightshade	-	-	-	0.30	-	-	-
P Sphaeralcea coccinea	Scarlet Globernallow	1.10	-	0.30	0.40	-	0.07	0.1
B Tragopogon dubius	Yellow salsify		-		-	-	0.07	-
hrubs, Sub-shrubs, Cacti & Tre	ees							
Atriplex canescens	Fourwing Saltbush	3.10	-		1.50			_
P Berberis fremontii	Fremont's Barberry	-			1.50			0.2
P Brickellia californica	California Brickellbush	-	0.47	_	_	-	_	
Cercocarpus ledifolius	Curl-leaf Mtn. Mahogany	-	1.13	-	-	-	-	-
Cercocarpus montanus	Mountain Mahogany	-	0.20	-	-	-	-	-
P Chrysothamnus nauseosus	Rubber Rabbitbrush	2.30	3.13	2.40	-	-	1.80	-
P Fallugia paradoxa	Apache Plume	-	0.80	-	-	-	0.27	-
P Gutierrezia sarothrae	Broom Snakeweed	4.20	1.33	3.20	0.40	3.00	3.13	6.3
D Juniperus monosperma	One-seed Juniper	-	0.67	-	-	0.53	3.33	2.
Opuntia polyacantha	Plains Pricklypear	-	-	0.20	-	0.27	-	0.6
P Opuntia spinosior	Walkingstick Cactus	-	0.07	-	-	-	0.27	1.
P Pinus edulis	Two-needle Pinyon	-	0.87	-	-	-	-	0.
P Pinus ponderosa	Ponderosa pine	-	-	-	-	-	1.00	-
P Rhus trilobata	Skunkbush Sumac	-	8.07	-	-	-	-	-
P Senecio flaccidus var. f.	Threadleaf Ragwort	-	-	0.20	-	-	-	-
> Yucca glauca	Soapweed Yucca	0.20	-	-	0.20	0.27	-	-
	Total Plant Cover	30.80	30.47	27.60	43.80	35.93	31.60	26.93
	Rock	32.70	24.20	15.40	13.20	4.93	7.13	2.07
	Litter	16.10	32.13	27.10	22.20	23.40	35.13	24.87
	Bare ground	20.40	13.20	29.90	20.80	35.73	26.13	46.13
Peren	nial & Biennial Plant Cover	29.90	29.67	26.90	41.80	35.87	31.47	26.93
Sampling Adacuscu	variance =	81.96	133.84	115.60	109.29	193.07	73.54	36.64
Sampling Adequacy Calculations:	n =	10	15	10	10	15	15	15
Calculations:	n _{min} =	29.03	44.73	50.99	19.14	46.39	22.85	15.67

* P - Perennial, B - Biennial, A - Annual

Ta	able 2 Cunningha	am Hill - 2020							
	Relative Cover Summ	ary (Composition) - Inte	rim Moni	toring					
					Percent	Ground Cove	er Based on	Point-Interce	ept Samplin
		Area Sampled>	Erosion	Open Pit	-	Sludge Cell	Waste	Waste	Reference
	Scientific Name	Common Name	Area	•	1	2	Rock Top	Rock Slope	Area
ìra	sses and Grass - likes								
Р	Agropyron dasystachyum	Thickspike wheatgrass	-	-	11.96	-	2.97	5.49	-
Р	Agropyron smithii	Western wheatgrass	1.30	2.19	10.87	8.68	7.61	1.90	-
Р	Agropyron spicatum	Bluebunch wheatgrass	-	-	-	-	-	2.74	-
P	Aristida purpurea	Purple three - awn	0.65	0.22	0.36	-	-	-	-
Ρ	Bouteloua curtipendula	Sideoats grama	6.17	19.47	9.06	1.60	46.75	14.98	-
P	Bouteloua gracilis	Blue grama	38.31	6.78	23.55	77.17	26.90	13.50	57.92
Ρ	Bromus inermis	Smooth Brome	-	0.22	0.72	0.46	4.08	0.63	-
4	Bromus japonicus	Japanese Brome	2.92	-	-	-	-	0.42	-
4	Bromus tectorum	Cheatgrass	-	2.19	-	1.14	0.19	-	-
Ρ	Elymus cinereus	Great basin wildrye	-	0.66	-	-	-	-	-
P	Hilaria jamesii	Galleta	4.55	1.53	-	-	0.19	25.53	0.25
2	Koeleria cristata	Prairie Junegrass	-	-	-	-	-	1.48	-
P	Muhlenbergia wrightii	Spike muhly	-	0.88	-	-	-	-	-
P	Oryzopsis hymenoides	Indian Ricegrass	0.97	-	3.99	0.91	-	-	-
P P	Schizachyrium scoparium Sitanion hystrix	Little bluestem Bottlebrush Squirreltail	6.49 1.62	- 3.06	-	-	-	0.84	- 0.25
r P	Sporobolus airoides	Alkali Sacaton	1.02	2.41	1.81	- 0.23	-	-	- 0.25
P P	Stipa neomexicana	New Mexico Feathergrass	-	2.41	11.23	0.23	-	0.21	-
	•	new rickies reachergrass			11.25	0.25		0.21	
or	bs								
Р	Euphorbia sp.	Sandmat	-	0.22	-	-	-	-	-
4	Ipomopsis longiflora	Flaxflowered ipomopsis	-	0.22	-	-	-	-	-
4	Machaeranthera canescens	Hoary tansyaster	-	0.22	2.54	0.23	-	-	-
3	Melilotus officinalis	Yellow Sweetclover	-	0.88	1.09	0.46	-	0.21	-
Ρ	Penstemon palmeri	Palmer Penstemon	0.65	3.94	-	-	-	0.63	-
P	Petalostemon purpureum	Purple prairie clover	0.97	-	-	-	-	-	-
A	Salsola tragus	Russian Thistle	-	-	-	2.51	-	-	-
P	Solanum elaeagnifolium	Silverleaf nightshade	-	-	-	0.68	-	-	-
P B	Sphaeralcea coccinea	Scarlet Globemallow Yellow salsify	3.57	-	1.09	0.91	-	0.21	0.50
	Tragopogon dubius	/	-	-	-	-	-	0.21	-
hı	ubs, Sub-shrubs, Cacti & Tro	ees							
D	Atriplex canescens	Fourwing Saltbush	10.06	-	-	3.42	-	-	-
2	Berberis fremontii	Fremont's Barberry	-	-	-	-	-	-	0.74
2	Brickellia californica	California Brickellbush	-	1.53	-	-	-	-	-
2	Cercocarpus ledifolius	Curl-leaf Mtn. Mahogany	-	3.72	-	-	-	-	-
)	Cercocarpus montanus	Mountain Mahogany	-	0.66	-	-	-	-	-
)	Chrysothamnus nauseosus	Rubber Rabbitbrush	7.47	10.28	8.70	-	-	5.70	-
2	Fallugia paradoxa	Apache Plume	-	2.63	-	-	-	0.84	-
2	Gutierrezia sarothrae	Broom Snakeweed	13.64	4.38	11.59	0.91	8.35	9.92	22.77
כ ר	Juniperus monosperma	One-seed Juniper	-	2.19	-	-	1.48	10.55	9.41
))	Opuntia polyacantha	Plains Pricklypear	-	-	0.72	-	0.74	-	2.48
, ,	Opuntia spinosior Pinus edulis	Walkingstick Cactus Two-needle Pinyon	-	0.22 2.84	-	-	-	0.84	4.46
,)	Pinus eduns Pinus ponderosa	Ponderosa pine	-	2.04	-	-	-	3.16	1.24
,)	Rhus trilobata	Skunkbush Sumac	-	- 26.48			-	5.10	
5	Senecio flaccidus var. f.	Threadleaf Ragwort	-	- 20.40	0.72	-	-	-	-
>	Yucca glauca	Soapweed Yucca	0.65	-	-	0.46	0.74	-	-
	Number of Species with >		8	13	8	3	6	9	5
	or > 1% Absolute Cove	, <u>-</u> ,	-			-	-		

* P - Perennial, B - Biennial, A - Annual

Tat	Table 3 Cunningham Hill - Vegetation Density - 2020										
	Woody Plant Densi										
Live Stems per A											
Lifeform	Scientific name	Area Sampled> Common Name	Erosion Area	Open Pit	Sludge Cell 1	Sludge Cell 2	Waste Rock Top	Waste Rock Slope			
S	Atriplex canescens	Fourwing Saltbush	186.2	59.4	85.0	28.3	43.2	45.9			
S	, Brickellia californica	California Brickellbush	-	8.1	8.1	-	78.2	-			
S	Cercocarpus ledifolius	Curl-leaf Mtn. Mahogany	-	54.0	-	-	-	-			
S	Cercocarpus montanus	Mountain Mahogany	4.0	59.4	-	-	-	2.7			
S	Chrysothamnus nauseosus	Rubber Rabbitbrush	311.6	1,044.1	509.9	-	51.3	97.1			
S	Fallugia paradoxa	Apache Plume	12.1	45.9	4.0	-	2.7	18.9			
Т	Juniperus monosperma	One-seed Juniper	-	24.3	4.0	4.0	27.0	137.6			
Su	Opuntia polyacantha	Plains Pricklypear	52.6	24.3	105.2	16.2	148.4	126.8			
Su	Opuntia spinosior	Walkingstick Cactus	4.0	37.8	28.3	4.0	45.9	107.9			
Т	Pinus edulis	Two-needle Pinyon	12.1	27.0	-	-	13.5	134.9			
Т	Pinus ponderosa	Ponderosa pine	-	2.7	-	-	-	83.6			
Т	Quercus gambelii	Gambels oak	-	8.1	-	-	-	2.7			
S	Rhus trilobata	Skunkbush Sumac	-	884.9	-	-	2.7	2.7			
S	Senecio flaccidus var. flaccidus	Threadleaf Ragwort	8.1	-	-	-	2.7	5.4			
Nx	Ulmus pumila	Siberian elm	-	-	-	-	2.7	-			
Su	Yucca glauca	Soapweed Yucca	72.8	13.5	109.3	44.5	35.1	54.0			
	Life Form	Shrub (S) Tree (T) Succulent (Su) Noxious (Nx)	522.0 12.1 129.5 -	2,155.6 62.1 75.5 -	607.0 4.0 242.8 -	28.3 4.0 64.7	180.8 40.5 229.3 2.7	172.7 358.8 288.7 -			
	Total Woody Plants per Acre	(Excluding Noxious)	663.7	2,293.2	853.9	97.1	450.6	820.2			
Sa	mple Adequacy Calculations	n = n _{min} =	10 245.86	15 71.38	10 349.49	Total Count	15 161.71	15 64.72			



3.2 Erosion Area

The Erosion Area was sampled with 10 cover transects in 2020 (see Map 2). Examination of Table 1 indicates that total plant cover was 30.8%, of which 29.9% was expressed as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 32.7%, 16.1%, and 20.4%, respectively. Total vegetative cover (exclusive of annual species) for Erosion Area exceeds the ground cover performance criterion (29.9% vs. 20.2% [75% of Reference Area Cover]). A total of 22 species were observed in the Erosion Area (Table A1), 8 of which are considered "important" species, exceeding the species diversity performance criterion (8 vs. 3 [50% of Reference Area "Important" Species]). Dominant taxa were blue grama (*Bouteloua gracilis*), broom snakeweed (*Gutierrezia sarothrae*), and fourwing saltbush (*Atriplex canescens*) with 11.8%, 4.2%, and 3.1% cover, respectively. Review of Table 3 and Chart 5 reveal that woody plant density (excluding noxious species) on this unit was 663 woody plants per acre. Dominant woody plants were rubber rabbitbrush (*Chrysothamnus nauseosus*) with 311 plants per acre and fourwing saltbush (*Atriplex canescens*) with 186 plants per acre. The Erosion Area exceeds the the Erosion Area criterion (663 live stems per acre vs 220 live stems per acre). These results indicate that the Erosion Area currently passes all bond release performance criteria for revegetation.



Photo 1. Erosion Area - 2020

3.3 Open Pit Area

The Open Pit Area was sampled with 15 cover transects in 2020 (see Map 2). Examination of Table 1 indicates that total plant cover was 30.5%, of which 29.7% was expressed as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 24.2%, 32.1%, and 13.2%, respectively. Total vegetative cover (exclusive of annual species) for Open Pit Area exceeds the ground cover performance criterion (29.7% vs. 20.2% [75% of Reference Area Cover]). A total of 31 species were observed in the Open Pit Area (Table A1), 13 of which are considered "important" species, exceeding the species diversity performance criterion (13 vs. 3 [50% of Reference Area "Important" Species]). Dominant taxa were skunkbush sumac (*Rhus trilobata*), sideoats grama (*Bouteloua curtipendula*), and rubber rabbitbrush with 8.0%, 5.9% and 3.1% cover, respectively. Review of Table 3 and Chart 5 reveal that woody plant density on this unit was 2,293 woody plants per acre (excluding noxious species). Dominant woody plants were rubber rabbitbrush and skunkbush sumac and with 1,044 and 884 plants per acre, respectively. The Open Pit Area significantly exceeds the woody plant density performance criterion (2,293 live stems per acre vs 220 live stems per acre). These results indicate that the Open Pit Area currently passes all bond release performance criteria for revegetation.



Photo 2. Open Pit Area - 2020

3.4 Sludge Cell 1 Area

The Sludge Cell 1 Area was sampled with 10 cover transects in 2020 (see Map 2). Examination of Table 1 indicates that total plant cover was 27.6%, of which 26.9% was expressed as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 15.4%, 27.1%, and 29.9%, respectively. Total vegetative cover (exclusive of annual species) for Sludge Cell 1 Area exceeds the ground cover performance criterion (26.9% vs. 20.2% [75% of Reference Area Cover]). A total of 21 species were observed in the Sludge Cell 1 Area (Table A1), 8 of which are considered "important" species, exceeding the species diversity performance criterion (8 vs. 3 [50% of Reference Area "Important" Species]). Dominant taxa were blue grama with 6.5% cover, thickspike wheatgrass (*Agropyron dasystachyum*) with 3.3% cover, western wheatgrass (*Agropyron smithil*) with 3.0% cover, new mexico feathergrass (*Stipa neomexicana*) with 3.1% cover and broom snakeweed with 3.2% cover. Review of Table 3 and Chart 5 reveal that woody plant density on this unit was 853 woody plants per acre (excluding noxious species). The dominant woody plant density performance criterion (853 live stems per acre vs 220 live stems per acre). These results indicate that the Sludge Cell 1 Area currently passes all bond release performance criteria for revegetation.



Photo 3. Sludge Cell 1 Area - 2020

3.5 Sludge Cell 2 Area

The Sludge Cell 2 Area was sampled with 10 cover transects in 2020 (see Map 2). Examination of Table 1 indicates that total plant cover was 43.8%, of which, 41.8% was expressed as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 13.2%, 22.2%, and 20.8%, respectively. Total vegetative cover (exclusive of annual species) for Sludge Cell 2 Area significantly exceeds the ground cover performance criterion (41.8% vs. 20.2% [75% of Reference Area Cover]). A total of 19 species were observed in the Sludge Cell 2 Area (Table A1), 3 of which are considered "important" species, this does not exceed the species diversity performance criterion (3 vs. 3 [50% of Reference Area "Important" Species]). Blue grama was the dominant taxon contributing 33.8% cover. Review of Table 3 and Chart 5 reveal that woody plant density on this unit was 97 woody plants per acre (excluding noxious species). The dominant woody plant was soapweed yucca (*Yucca glauca*) with 44.5 plants per acre. The Sludge Cell 2 Area does not exceed the woody plant density performance criterion (97 live stems per acre vs 220 live stems per acre). These results indicate that the Sludge Cell 2 Area is still progressing towards passing bond release performance criteria for revegetation.



Photo 4. Sludge Cell 2 Area - 2020

3.6 Waste Rock Top Area

The Waste Rock Top Area was sampled with 15 cover transects in 2020 (see Map 2). Examination of Table 1 indicates that total plant cover was 35.9%, of which 35.8% was expressed as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 4.9%, 23.4%, and 35.7%, respectively. Total vegetative cover (exclusive of annual species) for Waste Rock Top Area significantly exceeds the ground cover performance criterion (35.8% vs. 20.2% [75% of Reference Area Cover]). A total of 20 species were observed in the Waste Rock Top Area (Table A1), 6 of which are considered "important" species, exceeding the species diversity performance criterion (6 vs. 3 [50% of Reference Area "Important" Species]). Dominant taxa were sideoats grama, blue grama, and broom snakeweed with 16.8%, 9.6%, and 3% cover, respectively. Review of Table 3 and Chart 5 reveal that woody plant density on this unit was 450 woody plants per acre (excluding noxious species). Dominant *californica*) with 148 and 78 plants per acre, respectively. The Waste Rock Top Area significantly exceeds the woody plant density performance criterion (450 live stems per acre vs 220 live stems per acre). These results indicate that the Waste Rock Top Area currently passes all bond release performance criteria for revegetation.



Photo 5. Waste Rock Top Area - 2020

3.7 Waste Rock Slope Area

The Waste Rock Slope Area was sampled with 15 cover transects in 2020 (see Map 2). Examination of Table 1 indicates that total plant cover was 31.6%, of which 31.4% was expressed as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 7.1%, 35.1%, and 26.1%, respectively. Total vegetative cover (exclusive of annual species) for Waste Rock Slope Area significantly exceeds the ground cover performance criterion (31.4% vs. 20.2% [75% of Reference Area Cover]). A total of 29 species were observed in the Waste Rock Slope Area (Table A1), 9 of which are considered "important" species, exceeding the species diversity performance criterion (9 vs. 3 [50% of Reference Area "Important" Species]). Dominant taxa were galleta (*Hilaria jamesii*), sideoats grama, and blue grama with 8.0%, 4.7 %, and 4.2% cover, respectively. Review of Table 3 and Chart 5 reveal that woody plants were one-seed juniper (*Juniperus monosperma*) and two-needle pinon (*Pinus edulis*) with 137 and 134 plants per acre, respectively. The Waste Rock Slope Area significantly exceeds the woody plant density performance criterion (820 live stems per acre vs 220 live stems per acre). These results indicate that the Waste Rock Slope Area currently passes all bond release performance criteria for revegetation.



Photo 6. Waste Rock Slope Area - 2020

3.8 Reference Area

The approved reference area was sampled with 15 cover transects in 2020 (Map 2). Examination of Table 1 indicates that total plant cover was 26.9%, consisting entirely as perennial and biennial cover. Rock, litter, and bare ground exposure exhibited cover values of 2.0%, 24.8%, and 46.1%, respectively. Dominant taxa were blue grama, and broom snakeweed, with 15.6%, and 6.1% cover, respectively. A total of 10 species were observed in the reference area (Table A1), 5 which are considered "important" species.



Photo 7. Reference Area - 2020

4.0 RECOMMENDATIONS

Based on the results of this evaluation it is clear that all revegetation areas are exhibiting plant community development as expected. Therefore, Cedar Creek recommends that future monitoring efforts incorporate the smaller, younger areas (Erosion, Sludge Cell 1, and Sludge Cell 2) into the larger areas they are contained within. The Erosion area (0.72 acres) seeded in 2009 can be absorbed into the Waste Dump Slope area (14.43 acres) seeded in 1992. The Sludge Cell 1 (5.43 acres) and Sludge Cell 2 (0.33 acres) areas seeded in 2008 and 2011 respectively can be absorbed into the Waste Dump Top area (44.62 acres) seeded in 1992.

5.0 REFERENCES CITED

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Appendix A

Sampling Methods

Appendix A - Sampling Methods

INTRODUCTION

Cedar Creek's sampling protocols involve a concentration upon ground cover^{*} to facilitate repeatable future statistical comparisons among treatment areas (or unique revegetation units) and over time. A concentration on ground cover is recommended for a multitude of reasons. First, concentration on a single variable of plant ecology facilitates improved comprehension and comparability over time and among treatment scenarios. Second, ground cover data, especially when determined using a very precise method such as the point-intercept procedure, provides some of the most important information regarding community variability that ecologists can evaluate. Such data facilitate the determination of the true species composition, relative health (condition), and successional status of the sampled area. Furthermore, the same data can be utilized to develop the additional variables of frequency and species composition if desired. Third, strong inferences can be developed with other reasonably correlated variables such as production when species composition is factored into the analysis. Fourth, ground cover is a preferred variable for monitoring because cover data can be readily obtained in a statistically adequate and cost-effective manner (using the proper procedures), has broad application for evaluation (including erosion control modeling), precisely reflects species' dominance of a given area, and when collected using bias-free techniques such as the point-intercept procedure is one of the most repeatable variables among independent observers. Finally, cover is the primary variable indicated for use by the company's Closeout Plan for determination of successful revegetation.

However, in addition to ground cover sampling, MMD and hence the Closeout Plan, require evaluation of woody plant density. In this regard, it was determined most appropriate to monitor the progress of woody plant establishment and development (for wildlife habitat considerations) utilizing density belts as detailed in Section A-3.

^{*} To avoid confusion, the term "ground cover" is utilized to indicate the variable of <u>non-overlapping foliar cover</u> (the percent of the ground occupied by all above ground live plant material) in addition to the ground surface covered by litter or rock. Non-overlapping means that only that cover which would be wetted by a light mist would be counted as opposed to that plant material which would not get wet due to overshadowing plant material. In this manner, <u>total ground cover</u> cannot exceed 100%. Other forms of "cover" would include: basal cover (the percent of the ground surface occupied by the living base of plants), crown or canopy cover (the percent of the ground occupied by the canopies of plants), or overlapping foliar cover (the percent of the ground occupied by <u>all</u> plant material allowing for overlapping vegetation - i.e., such cover can exceed 100%). Non-overlapping foliar cover is preferred because of its inherent repeatability among observers, resulting data are directly applicable to erosion control modeling efforts, and significant precedent has already been set in the industry. In contrast, the determination of the live portion of the base of a plant (as necessary for basal cover) becomes increasingly difficult given life forms such as certain bunch grasses and sod-formers.

A-1 Sample Site Selection / Location

As indicated in the revised Closeout Plan, sample site location for the reclaimed areas suggests use of a systematic procedure initiated in an unbiased manner for each unique revegetation unit investigated as well as the reference area. In this manner, "representation" from the entire reclaimed unit is "forced" rather than risking the chance that significant pockets are entirely missed, or over-emphasized, as may occur in strictly random sampling. This systematic procedure also provides proportionate representation from across the reclaimed unit for such characteristics as aspect and slope. An example of this procedure is indicated on Figure 1 and the actual results on Map 2.

The systematic procedure for sample location occurred in the following stepwise manner. First, a fixed point of reference was selected for each area to facilitate location of the systematic grid in the field. Second, a systematic grid of appropriate dimensions (e.g., 125' X 125') was selected by Cedar Creek to provide a minimum number of coordinate intersections within the reclaimed unit that could then be used for the initial set of sample sites. Third, a scaled representation of the grid was overlain on computer-generated field maps of each facility extending parallel to major compass axes. Fourth, unbiased placement of this grid was controlled by selection of two random numbers to be used as coordinates to establish a sampling starting point. Fifth, utilizing a handheld compass and pacing techniques or a handheld GPS, all of the initial sample points for each area were located in the field. The result of this activity is provided on Map 2. If the initial systematic samples had not been sufficient to provide an adequate ground cover or woody plant density sample for bond release evaluations, an "intergrid" would have been selected to provide additional systematically determined sample points.

The reference area to be utilized for comparison to the reclaimed areas was selected from an undisturbed area typical of the soils and other physical attributes of the reclaimed area (see Map 1). This area was approved by MMD on September 2, 1997. More important, however, is that this is one of the few areas sufficiently sizable (6.84 acres) in the project area that is dominated by a natural grassland community, the most appropriate and representative target for reclaimed communities. A few scattered junipers occur within the reference area but are exempted from sampling if mature. The other communities in the project area (primarily piñon - juniper woodland) are overwhelmingly dominated by woody species that take decades, perhaps centuries, to evolve. Furthermore, reference areas comprised of these "woody" communities would defeat certain fundamental assumptions necessary for a valid comparison the most primary of which is equivalence or similarity of form and function. In any event, sample site selection in the reference area occurred in a manner very similar to that for the reclaimed areas. The only difference being that the occasional mature junipers were specifically avoided as they are not representative of the grassland community. In this regard, where a ground cover transect intercepted a mature tree (greater than 5 feet in height), the cover transect was interrupted at the "drip line" of the

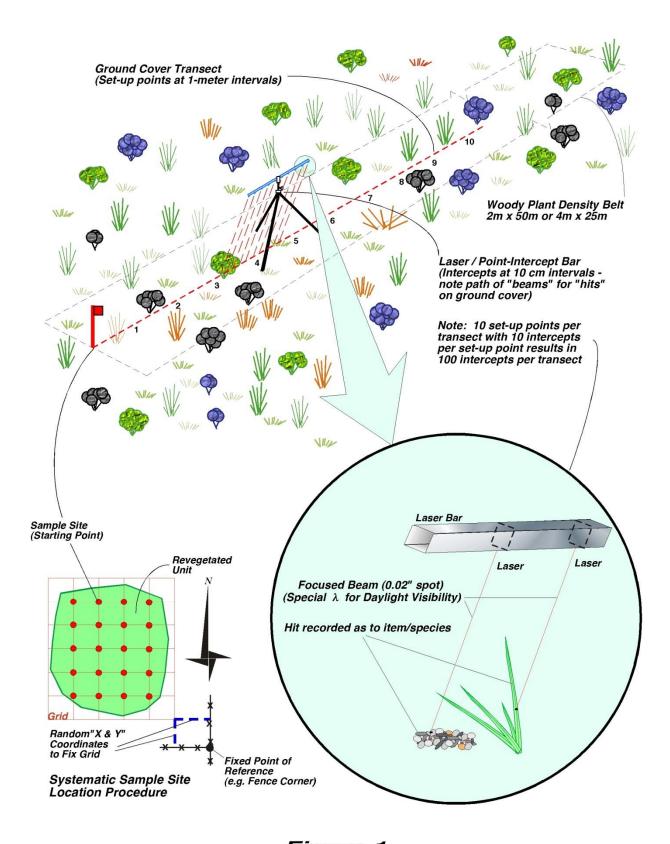


Figure 1 Sampling Procedure at a Systematic Sample Site Location

tree canopy and then resumed on the opposite side. Immature trees (less than 5 feet tall) that were intercepted by the cover transect were recorded along with all other vegetation. This process was deemed appropriate as young trees also occur in the reclamation.

A-2 Determination of Ground Cover

Ground cover at each sampling site was determined utilizing the point-intercept methodology (Bonham 1989) as illustrated on Figure 1. This methodology has been utilized for range studies for over eighty (80) years, however, Cedar Creek utilizes new state-of-the-art instrumentation which it has pioneered to facilitate much more rapid and accurate collection of data. Implementation of the technique for the sampling effort occurred as follows: First, one transect of 10 meters length was extended from the starting point of each sample site toward the direction of the next site to be sampled. Then, at each one-meter interval along the transect, a "laser point bar" was situated vertically above the ground surface, and a set of 10 readings recorded as to hits on vegetation (by species), litter, rock (>2mm), or bare soil. Hits were determined at each meter interval by activating a battery of 10 specialized lasers situated along the bar at 10 centimeter intervals and recording the variable intercepted by each of the narrow (0.02") focused beams (see Figure 1). In this manner, a total of 100 intercepts per transect were recorded resulting in 1 percent cover per intercept. This methodology and instrumentation facilitates the collection of the most unbiased, repeatable, precise, and cost-effective ground cover data possible. Furthermore, the point-intercept procedure has been widely accepted in the scientific community, especially the mining industry, as the protocol of choice for vegetation monitoring and bond release determination.

A-3 Determination of Woody Plant Density

Woody plant density at each sampling site was determined using fixed length / width belt transects extended from the starting point of each sample site toward the direction of the next site to be sampled. Each belt was a total of 100 m² and were either 2 meter by 50 meter or 4 meter by 25 meter, depending on the size of the unit. All live shrubs, sub-shrubs, cacti and trees rooted within the boundaries of these belts were counted and classified according to species. Determination of whether or not a plant could be counted was dependent upon the location of its main stem or root collar where it exited the ground surface with regard to belt limits. Entire plants rather than stems were counted to provide a more accurate representation of actual woody plant density.

A-4 Sample Adequacy Determination

Ground cover sampling within the reclaimed areas as well as the reference area was conducted to a minimum of 10 or 15 initial transects. Woody plant density sampling within the reclaimed areas sampled for interim monitoring were co-located with ground cover transects. From these preliminary efforts, a sample mean and standard deviation for total non-overlapping vegetation ground cover and woody plant density were calculated. These parameters were calculated in the field to insure collection of an adequate sample and once again by computer during final data analyses for each area. Sampling continued until an adequate ground cover or woody plant density sample, \mathbf{n}_{min} , had been collected in accordance with the Cochran formula (below) for determining sample adequacy, whereby the population would be estimated to within 10% of the true mean (μ) with 90% confidence. Sampling to these limits facilitates a very strong estimate of target populations. Cochran's formula was utilized as it is the procedure indicated for use in the new Section 4.4 of the Closeout Plan as well as in MMD's regulatory guidelines. Sample adequacy was calculated for informational purposes as achieving an adequate sample is not required for interim monitoring evaluations.

When the inequality $(\mathbf{n}_{\min} \leq \mathbf{n})$ is true, sampling is adequate and \mathbf{n}_{\min} is determined as follows:

 $n_{min} = (t^2 s^2) / (0.1 \ \bar{x})^2$

where:

- n = the number of actual samples collected (initial size = 10 or 15)
 - t = the value from the two-tailed t distribution for 90% confidence with n-1 degrees of freedom;
 - s^2 = the variance of the estimate as calculated from the initial samples;
 - \overline{x} = the mean of the estimate as calculated from the initial samples.

A-5 Testing for Success

Following statistically adequate sampling, the comparison process is initiated by calculating the mean ground cover value for non-annual plants only (non-annual ground cover, or "NAGC") for each revegetated unit and the reference area. The test for revegetation success for ground cover includes the following steps.

<u>Step 1</u>: The first step is to determine whether the mean NAGC of the revegetated unit(s) ($\overline{x}_{(rv)}$) exceeds 75 percent of the mean NAGC for the reference area ($\overline{x}_{(co)}$). If $\overline{x}_{(rv)} \ge 0.75$ ($\overline{x}_{(co)}$), then the ground cover test has been passed and the soils are assumed to be stable.

<u>Step 2</u>: If the mean NAGC of the revegetated unit equals or exceeds 50% (but is less than 75%) of the mean NAGC for the reference area, then a "gray area" determination will be conducted to evaluate soil stability. The evaluation of soil stability using the RUSLE model is detailed in subsection 4.4.4 of the closeout plan.

Appendix B

Raw Data

	Observed Species	ham Hill - 2020							
		Awar Commind		1					
		Area Sampled>	Erosion Area	Open Pit	Sludge Cell 1	Sludge Cell 2	Waste Rock Top	Waste Rock Slope	Referenc Area
	Scientific Name	Common Name	Aled		1	2	юр	Siohe	Aled
ìra	sses and Grass - likes								
	Agropyron dasystachyum	Thickspike wheatgrass			X		Х	X	
	Agropyron smithii	Western wheatgrass	Х	x	x	х	x	x	
	Agropyron spicatum	Bluebunch wheatgrass						x	
	Aristida purpurea	Purple three - awn	X	X	X				
	Bouteloua curtipendula	Sideoats grama	Х	x	х	х	х	x	
	Bouteloua gracilis	Blue grama	X	X	X	X	x	x	X
	Bromus inermis	Smooth Brome		x	x	x	x	X	
	Bromus japonicus	Japanese Brome	Х					x	
	Bromus tectorum	Cheatgrass		x		x	x		
	Elymus cinereus	Great basin wildrye		X					
	Hilaria jamesii	Galleta	X	х	1		х	X	х
	Koeleria cristata	Prairie Junegrass						X	
	Muhlenbergia wrightii	Spike muhly		х					
	Oryzopsis hymenoides	Indian Ricegrass	X		x	х			
	Schizachyrium scoparium	Little bluestem	<u>X</u>	N N				X	
	Sitanion hystrix	Bottlebrush Squirreltail	X	X X	~	Y			х
	Sporobolus airoides Stipa neomexicana	Alkali Sacaton New Mexico Feathergrass		×	X	X X		x	
	Supa neomexicana	New Mexico Featileigiass			^	^		^	
orl	bs								
P	Euphorbia sp.	Sandmat		X					
À	Ipomopsis longiflora	Flaxflowered ipomopsis		x					
À	Machaeranthera canescens	Hoary tansyaster		x	x	х			
È	Melilotus officinalis	Yellow Sweetclover		X	X	X		X	
P	Penstemon palmeri	Palmer Penstemon	х	x				x	
P	Petalostemon purpureum	Purple prairie clover	x						
A	Salsola tragus	Russian Thistle				х			
Ρ	Solanum elaeagnifolium	Silverleaf nightshade				х			
Ρ	Sphaeralcea coccinea	Scarlet Globernallow	х		х	х		х	Х
В	Tragopogon dubius	Yellow salsify						X	
hr	ubs, Sub-shrubs, Cacti & Tre	es							
p	Atriplex canescens	Fourwing Saltbush	х	х	X	х	х	x	
P	Berberis fremontii	Fremont's Barberry	~	Î Î	Î Î	Â	Î Î	Ŷ	х
P	Brickellia californica	California Brickellbush		x	x		х		Â
Þ	Cercocarpus ledifolius	Curl-leaf Mtn. Mahogany		X	†		<u>^</u>		
5	Cercocarpus montanus	Mountain Mahogany	х	x	1			х	
5	Chrysothamnus nauseosus	Rubber Rabbitbrush	x	x	x		х	x	
5	Fallugia paradoxa	Apache Plume	X	X	X		X	X	
5	Gutierrezia sarothrae	Broom Snakeweed	X	x	x	х	x	x	х
c	Juniperus monosperma	One-seed Juniper		х	x	х	х	х	х
>	Opuntia polyacantha	Plains Pricklypear	Х	X	х	Х	X	X	Х
>	Opuntia spinosior	Walkingstick Cactus	Х	x	х	х	x	x	Х
>	Pinus edulis	Two-needle Pinyon	X	x			x	x	Х
)	Pinus ponderosa	Ponderosa pine		х				x	
)	Quercus gambelii	Gambels oak		х				х	
<u> </u>	Rhus trilobata	Skunkbush Sumac		X			x	X	
,	Senecio flaccidus var. f.	Threadleaf Ragwort	Х				X	x	
х	Ulmus pumila	Siberian elm			1		х		
>	Yucca glauca	Soapweed Yucca	X	X	X	X	X	X	L
		Total Species Encountered	22	31	21	19	20	29	10

* P - Perennial, B - Biennial, A - Annual, Nx - Noxious * Includes species found in both Cover & WPD transects

Та	ble A2 Cunningh	am Hill - Vegetati	on	Cov	ver	- 2	020)							
	Erosion Area - Ra	w Data													
					-		Pe	ercen	t Gro	und (Cove	Base	ed on Point	-Intercept	Samplir
		Transect No.——>	1	2	3	4	5	6	7	8	9	10	Average	Relative	Frea
Gras	sses and Grass-likes												Cover	Cover	neq
)	Agropyron smithii	Western wheatgrass			1	1			2				0.40	1.30	30
)	Aristida purpurea	Purple three - awn			2								0.20	0.65	10
)	Bouteloua curtipendula	Sideoats grama	5	6	6						2		1.90	6.17	40
)	Bouteloua gracilis	Blue grama	13	7	1	2	14	22	22	29	5	3	11.80	38.31	100
4	Bromus japonicus	Japanese brome								2		7	0.90	2.92	20
)	Hilaria jamesii	Galleta				2		8	4				1.40	4.55	30
)	Oryzopsis hymenoides	Indian Ricegrass		1					1	1			0.30	0.97	30
>	Schizachyrium scoparium	Little bluestem	5	4	3						8		2.00	6.49	40
)	Sitanion hystrix	Bottlebrush Squirreltail					2		3				0.50	1.62	20
Forbs P Penstemon palmeri Palmer Penstemon 2 0.20 0.65 10															
	Penstemon palmeri				2										-
2	Petalostemon purpureum	Purple prairie clover									3		0.30	0.97	10
>	Sphaeralcea coccinea	Scarlet Globemallow			2	8		1					1.10	3.57	30
	ubs, Sub-shrubs, Cacti & Tree														
)	Atriplex canescens	Fourwing Saltbush					21					10	3.10	10.06	20
)	Chrysothamnus nauseosus	Rubber Rabbitbrush			3							20	2.30	7.47	20
>	Gutierrezia sarothrae	Broom Snakeweed		2	6	15	13				5	1	4.20	13.64	60
)	Yucca glauca	Soapweed Yucca				2							0.20	0.65	10
														Mean	
		Total Plant Cover		20	26	30	50	31	32	32	23	41		30.80	
		Rock	65	42	41	10	3	35	19	26	67	19		32.70	
		Litter	6	11	9	27	18	5	24	28	3	30		16.10	
	Bare ground 6 27 24 33 29 25 14 7 10													20.40	
	Total I	Perennial & Biennial Cover	23	20	26	30	50	31	32	30	23	34		29.90	
	Sample Adequacy				<i>t</i> =	1.83	31		n =	10					
	Calculations		Va	irian	ce =	81.9	6	n	_{nin} =	29.0	3				
	Diversity			•				l or E	Bienni	ial Sp	s. =		8		
		(>2%	o Re	ative	e Cov	er o	r >19	%A۱	/erag	je Co	ver)				

ab	ole A3 Cunningha	m Hill - Vegetati	on	Cov	/er	- 2	020													
	Open Pit - Raw Dat	а																		
								_							_			ed on Point	-Intercept	Samp
		Transect No.——>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Average	Relative	Fre
ass	ses and Grass-likes																	Cover	Cover	пе
	Agropyron smithii	Western wheatgrass											7	:	1		2	0.67	2.19	20
	Aristida purpurea	Purple three - awn							1									0.07	0.22	7
	Bouteloua curtipendula	Sideoats grama		2		15	38			2		10					22	5.93	19.47	40
	Bouteloua gracilis	Blue grama		3	2		1	1			9				9		6	2.07	6.78	47
	Bromus inermis	Smooth Brome				1												0.07	0.22	7
	Bromus tectorum	Cheatgrass							1			6	3					0.67	2.19	20
	Elymus cinereus	Great basin wildrye		3														0.20	0.66	7
	Hilaria jamesii	Galleta							1		2			-		4		0.47	1.53	20
	Muhlenbergia wrightii	Spike muhly		L						ļ	L				4		ļ	0.27	0.88	7
	Sitanion hystrix	Bottlebrush Squirreltail			3											11		0.93	3.06	13
	Sporobolus airoides	Alkali Sacaton		2	1							4	4					0.73	2.41	27
rbs	5																			
	Euphorbia sp.	Sandmat		1														0.07	0.22	7
	Ipomopsis longiflora	Flaxflowered ipomopsis		1														0.07	0.22	7
	Machaeranthera canescens	Hoary tansyaster				1								:				0.07	0.22	7
	Melilotus officinalis	Yellow Sweetclover								1			1			2		0.27	0.88	20
	Penstemon palmeri	Palmer Penstemon	7					6	3						2			1.20	3.94	27
ru	bs, Sub-shrubs, Cacti & Trees																			
	Brickellia californica	California Brickellbush									7							0.47	1.53	7
	Cercocarpus ledifolius	Curl-leaf Mtn. Mahogany						5	10	2								1.13	3.72	20
	Cercocarpus montanus	Mountain Mahogany								3								0.20	0.66	7
	Chrysothamnus nauseosus	Rubber Rabbitbrush	12		6						7			9		13		3.13	10.28	33
	Fallugia paradoxa	Apache Plume							8			4						0.80	2.63	13
	Gutierrezia sarothrae	Broom Snakeweed			6		8				1		3				2	1.33	4.38	33
	Juniperus monosperma	One-seed Juniper													10			0.67	2.19	7
	Opuntia spinosior	Walkingstick Cactus									1							0.07	0.22	7
	Pinus edulis	Two-needle Pinyon				13												0.87	2.84	7
	Rhus trilobata	Skunkbush Sumac						6	5	22	9	20		40	11	8		8.07	26.48	53
																			Mean	
		Total Plant Cover	19	12	18	30	47	18	29	30	36	44	18	49	37	38	32		30.47	
		Rock		28	35	12	1	48	44	38	3	39	12	8	16	8	11		24.20	
		Litter		43	33	26	35	30	27	30	49	9	32	43	43	47	14		32.13	
		Bare ground	0	17	14	32	17	4	0	2	12	8	38	0	4	7	43		13.20	
	Total Pe	erennial & Biennial Cover	19	11	18	29	47	18	28	30	36	38	15	49	37	38	32		29.67	
	Comple Adequarte C							<i>t</i> =	1.76	513		n =	15							
	Sample Adequacy C	aiculations				Va	rian	ce =	133	.84	n.	_{nin} =	44.7	3						
					No							Bienni			1	.3				
	Diversity	1			(>2%								-		-					

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Та	ble A4 Cunningh Sludge Cell 1 - Ray	am Hill - Vegetati v Data	on	Co	ver	- 2	020)							
							Pe	ercent	t Gro	und (Covei	r Bas	ed on Point	-Intercept	Samplin
Gras	ses and Grass-likes	Transect No.—->	1	2	3	4	5	6	7	8	9	10	Average Cover	Relative Cover	Freq.
>	Agropyron dasystachyum	Thickspike wheatgrass		17	9	4				1	2		3.30	11.96	50
b	Agropyron smithii	Western wheatgrass	20	10		·				-	-		3.00	10.87	20
,	Aristida purpurea	Purple three - awn	20	10			1						0.10	0.36	10
)	Bouteloua curtipendula	Sideoats grama			10	8	-					7	2.50	9.06	30
)	Bouteloua gracilis	Blue grama					12	22	17	8	6		6.50	23.55	50
)	Bromus inermis	Smooth Brome			2								0.20	0.72	10
)	Oryzopsis hymenoides	Indian Ricegrass			-			2				9	1.10	3.99	20
b	Sporobolus airoides	Alkali Sacaton	5										0.50	1.81	10
>	Stipa neomexicana	New Mexico Feathergrass	-							6	11	14	3.10	11.23	30
Forb													0.70		
4		Machaeranthera canescens Hoary tansyaster 3 4												2.54	20
3	Melilotus officinalis	Yellow Sweetclover								3			0.30	1.09	10
>	Sphaeralcea coccinea	Scarlet Globemallow				1					1	1	0.30	1.09	30
Shru	ıbs, Sub-shrubs, Cacti & Tree	S													
)	Chrysothamnus nauseosus	Rubber Rabbitbrush	6					2		4	12		2.40	8.70	40
)	Gutierrezia sarothrae	Broom Snakeweed	6	6	1	1	1	3		3	1	10	3.20	11.59	90
2	Opuntia polyacantha	Plains Pricklypear		2									0.20	0.72	10
,	Senecio flaccidus var. f.	Threadleaf Ragwort									2		0.20	0.72	10
													-	Mean	
		Total Plant Cover	40	39	22	14	14	29	17	25	35	41		27.60	
		Rock	5	4	4	3	67	21	19	11	12	8		15.40	
		Litter	44	38	34	43	1	20	34	23	20	14		27.10	
		Bare ground	11	19	40	40	18	30	30	41	33	37		29.90	
	Total Perennial & Biennial Cover 37 35 22 14 14 29 17 25 35											41		26.90	
	Sample Adequacy Calculations					1.83	-		n =						
	Calculations			arian					<u>nin</u> =						
	Diversity	No. (>2%		-					Sienni verag	-			8		

Та	ble A5 Cunningh	am Hill - Vegetati	on	Cov	ver	- 2	020)							
	Sludge Cell 2 - Ray	w Data													
							Pe	ercent	t Gro	und (Cove	r Bas	ed on Point	-Intercept	Samplin
		Transect No.—->	1	2	3	4	5	6	7	8	9	10	Average	Relative	Frea.
Gras	sses and Grass-likes												Cover	Cover	qi
)	Agropyron smithii	Western wheatgrass			6			15	17				3.80	8.68	30
)	Bouteloua curtipendula	Sideoats grama				3	2	2					0.70	1.60	30
)	Bouteloua gracilis	Blue grama	41	29	33	28	39	17	19	23	63	46	33.80	77.17	100
)	Bromus inermis	Smooth Brome				1							0.20	0.46	20
`	Bromus tectorum	Cheatgrass							5				0.50	1.14	10
>	Oryzopsis hymenoides	Indian Ricegrass					1	1			2		0.40	0.91	30
>	Sporobolus airoides	Alkali Sacaton						-		1	<u> </u>		0.10	0.23	10
b	Stipa neomexicana	New Mexico Feathergrass								-	1		0.10	0.23	10
	•						1						0.20	0.20	
ort	S														
	Machaeranthera canescens	Hoary tansyaster								1			0.10	0.23	10
	Melilotus officinalis	Yellow Sweetclover					2						0.20	0.46	10
	Salsola tragus	Russian Thistle							11				1.10	2.51	10
)	Solanum elaeagnifolium	Silverleaf nightshade								3			0.30	0.68	10
>	Sphaeralcea coccinea	Scarlet Globernallow							1	3			0.40	0.91	20
Shru	ubs, Sub-shrubs, Cacti & Tree												•	•	
)	Atriplex canescens	Fourwing Saltbush				7		8					1.50	3.42	20
>	Gutierrezia sarothrae	Broom Snakeweed				1	2		1				0.40	0.91	30
>	Yucca glauca	Soapweed Yucca								2			0.20	0.46	10
														Mean	
		Total Plant Cover	42	29	39	40	46	43	54	33	66	46		43.80	
		Rock	18	37	23	14	13	5	6	2	4	10		13.20	
		Litter	14	15	13	17	20	30	29	49	9	26		22.20	
		Bare ground		19	25	29	21	22	11	16	21	18		20.80	
	Total F	erennial & Biennial Cover	42	29	39	40	46	43	38	29	66	46	•	41.80	
	Sample Adequacy				<i>t</i> =	1.83	221		n =	10		-	•		
	Calculations		V	arian			-	n	- 11 nin =	-	4				
		Nn.		mpor									3		
	Diversity	(>2%		-						-			-		
	Poronnial P Pionnial A A	· · · · · · · · · · · · · · · · · · ·	o Ke	ative	e Cov	er o	r >1	% A V	erag	je Co	ver)				

21	5 11 28	6 3 8		-	9 1	_	_			Cover 14	_	ed on Point Average Cover	-Intercept S Relative Cover	Samplii Freq			
21	11	3		-	9 1	_	_				_	Average	Relative	-			
21	11	3		-	9 1	.0	11	12	13	14	15			From			
21							-						Cover	nec			
21					gropyron dasystachyum Thickspike wheatgrass 1 Igropyron smithii Western wheatgrass 2 6 33												
21				_						16		1.07	2.97	7			
												2.73	7.61	20			
8	28	8				8	49	9	10	23	22	16.80	46.75	93			
			40		21			27	2		4	9.67	26.90	67			
				2	1	.3						1.47	4.08	20			
												0.07	0.19	7			
		1										0.07	0.19	7			
												0.00	0.00	0			
Shrubs, Sub-shrubs, Cacti & Trees P Gutierrezia sarothrae Broom Snakeweed 11 7 7 1 6 2 2 1																	
	7	7	1		7	1	6			2	1			67			
		4							4					13			
					2			1				0.27	0.74	20			
				3						1		0.27	0.74	13			
													Mean	-			
. 29	46	23	41 3	36 3	36 2	22	55	37	18	42	27		35.93				
3	2	5	2	0	0 4	10	1	3	8	0	6		4.93				
18	12	33	26	41 1	25 2	20	12	26	32	12	24		23.40				
50	40	39	31 2	23	39 1	8	32	34	42	46	43		35.73				
L 29	46	23	41	36	36 2	22	55	37	18	42	27		35.87				
		-					1	57	10	74			55107				
		-		-			15										
			193.0	7				-									
	mort			-			46.3			5							
	3 18 50 29	3 2 18 12 50 40 29 46 Variance	3 2 5 18 12 33 50 40 39 29 46 23	29 46 23 41 4 3 2 5 2 3 26 5 2 14 <td>Image Image Image Image 29 46 23 41 36 3 3 2 5 2 0 3 18 12 33 26 41 36 50 40 39 31 23 29 46 23 41 36 t = 1.7613</td> <td>4 4 2 2 4 2 2 5 3 5 2 5 2 0 4 3 2 5 2 0 4 3 2 5 2 0 0 4 18 12 33 26 41 25 2 50 40 39 31 23 39 1 29 46 23 41 36 36 2 29 46 23 41 36 36 2 29 46 23 41 36 36 2</td> <td>Image: system of the system</td> <td>4 5 2 5 29 46 23 41 36 36 22 55 3 2 5 2 0 0 40 1 18 12 33 26 41 25 20 12 50 40 39 31 23 39 18 32 29 46 23 41 36 36 22 55</td> <td>4 4 5 5 1 2 5 2 5 1 2 5 2 5 3 3 2 5 2 0 1 3 3 2 5 2 0 0 40 1 3 18 12 33 26 41 25 20 12 26 50 40 39 31 23 39 18 32 34 29 46 23 41 36 36 22 55 37</td> <td>4 4 5 5 3 4 5 4 1 4 2 2 4 1 2 4 1 1 2 4 3 2 4 3 4 3 2 4 3 3 4 3 4 4 3 2 5 2 0 0 40 1 3 8 18 12 33 26 41 25 20 12 26 32 50 40 39 31 23 39 18 32 34 42 29 46 23 41 36 36 22 55 37 18</td> <td>4 4 2 4 4 2 4 2 4 1 2 4 2 4 1 4 3 4 3 5 4 1 1 3 2 5 2 0 0 40 1 3 8 0 18 12 33 26 41 25 20 12 26 32 12 50 40 39 31 23 39 18 32 34 42 46 29 46 23 41 36 36 22 55 37 18 42 4 12 33 26 41 25 20 12 26 32 12 50 40 39 31 23 39 18 32 34 42 46 29 46 23 41 36 36 22 55 37 18 42 </td> <td>4 4 4 4 4 4 4 2 4 4 4 4 4 4 2 4 4 4 4 4 4 4 5 2 5 1 4 4 2 5 4 5 1 5 1 5 2 5 5 5 5 1 5 1 5 3 2 5 2 0 0 40 1 3 8 0 6 18 12 33 26 41 25 20 12 26 32 12 24 50 40 39 31 23 39 18 32 34 42 46 43 29 46 23 41 36 36 22 55 37 18 42 27</td> <td>4 4 5 5 4 5 0.53 2 2 5 1 5 0.27 1 5 3 5 5 1 5 0.27 2 5 1 5 1 5 0.27 2 5 5 1 1 1 0.27 2 5 5 5 1 1 0.27 2 5 5 5 5 1 1 0.27 2 5 5 5 5 5 5 5 5 3 2 5 2 0 0 40 1 3 8 0 6 18 12 33 26 41 25 20 12 26 32 12 24 50 40 39 31 23 39 18 32 34 42 46 43 29 46 23 41 36 36 22 55 3</td> <td>4 4 - - 4 - 4 - 0.53 1.48 - - - 2 - 1 - - 0.53 1.48 - - - 2 - 1 1 - - 0.27 0.74 - - - 3 - - - 1 1 0.27 0.74 - - - - - - 1 1 0.27 0.74 - - - - - - - 1 1 0.27 0.74 - - - - - - - - - 0.27 0.74 -</td>	Image Image Image Image 29 46 23 41 36 3 3 2 5 2 0 3 18 12 33 26 41 36 50 40 39 31 23 29 46 23 41 36 t = 1.7613	4 4 2 2 4 2 2 5 3 5 2 5 2 0 4 3 2 5 2 0 4 3 2 5 2 0 0 4 18 12 33 26 41 25 2 50 40 39 31 23 39 1 29 46 23 41 36 36 2 29 46 23 41 36 36 2 29 46 23 41 36 36 2	Image: system of the system	4 5 2 5 29 46 23 41 36 36 22 55 3 2 5 2 0 0 40 1 18 12 33 26 41 25 20 12 50 40 39 31 23 39 18 32 29 46 23 41 36 36 22 55	4 4 5 5 1 2 5 2 5 1 2 5 2 5 3 3 2 5 2 0 1 3 3 2 5 2 0 0 40 1 3 18 12 33 26 41 25 20 12 26 50 40 39 31 23 39 18 32 34 29 46 23 41 36 36 22 55 37	4 4 5 5 3 4 5 4 1 4 2 2 4 1 2 4 1 1 2 4 3 2 4 3 4 3 2 4 3 3 4 3 4 4 3 2 5 2 0 0 40 1 3 8 18 12 33 26 41 25 20 12 26 32 50 40 39 31 23 39 18 32 34 42 29 46 23 41 36 36 22 55 37 18	4 4 2 4 4 2 4 2 4 1 2 4 2 4 1 4 3 4 3 5 4 1 1 3 2 5 2 0 0 40 1 3 8 0 18 12 33 26 41 25 20 12 26 32 12 50 40 39 31 23 39 18 32 34 42 46 29 46 23 41 36 36 22 55 37 18 42 4 12 33 26 41 25 20 12 26 32 12 50 40 39 31 23 39 18 32 34 42 46 29 46 23 41 36 36 22 55 37 18 42	4 4 4 4 4 4 4 2 4 4 4 4 4 4 2 4 4 4 4 4 4 4 5 2 5 1 4 4 2 5 4 5 1 5 1 5 2 5 5 5 5 1 5 1 5 3 2 5 2 0 0 40 1 3 8 0 6 18 12 33 26 41 25 20 12 26 32 12 24 50 40 39 31 23 39 18 32 34 42 46 43 29 46 23 41 36 36 22 55 37 18 42 27	4 4 5 5 4 5 0.53 2 2 5 1 5 0.27 1 5 3 5 5 1 5 0.27 2 5 1 5 1 5 0.27 2 5 5 1 1 1 0.27 2 5 5 5 1 1 0.27 2 5 5 5 5 1 1 0.27 2 5 5 5 5 5 5 5 5 3 2 5 2 0 0 40 1 3 8 0 6 18 12 33 26 41 25 20 12 26 32 12 24 50 40 39 31 23 39 18 32 34 42 46 43 29 46 23 41 36 36 22 55 3	4 4 - - 4 - 4 - 0.53 1.48 - - - 2 - 1 - - 0.53 1.48 - - - 2 - 1 1 - - 0.27 0.74 - - - 3 - - - 1 1 0.27 0.74 - - - - - - 1 1 0.27 0.74 - - - - - - - 1 1 0.27 0.74 - - - - - - - - - 0.27 0.74 -			

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Tał	ole A7 Cunningh	am Hill - Vegetati	on	Cov	ver	- 2	020)												
	Waste Rock Slope	- Raw Data																		
												Pe	rcent	t Gro	und (Cove	r Bas	ed on Point	-Intercept	Samplii
		Transect No.——>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Average	Relative	- Even
aras	ses and Grass-likes																	Cover	Cover	Freq
)	Agropyron dasystachyum	Thickspike wheatgrass														26		1.73	5.49	7
)	Agropyron smithii	Western wheatgrass		2							1		4	1			1	0.60	1.90	33
)	Agropyron spicatum	Bluebunch wheatgrass										9		4				0.87	2.74	13
)	Bouteloua curtipendula	Sideoats grama	13	8	10	19		7		5			3				6	4.73	14.98	53
)	Bouteloua gracilis	Blue grama		1			7	1	2	7	13	3	5		17		8	4.27	13.50	67
•	Bromus inermis	Smooth brome						3										0.20	0.63	7
\	Bromus japonicus	Japanese brome		2											[0.13	0.42	7
)	Hilaria jamesii	Galleta		13	5		4	16	8	17	21	18		19				8.07	25.53	60
)	Koeleria cristata	Prairie Junegrass													2		5	0.47	1.48	13
)	Schizachyrium scoparium	Little bluestem								4						<u> </u>	1	0.27	0.84	7
)	Stipa neomexicana	New Mexico Feathergrass		1			:							:				0.07	0.21	7
orb	5																			
	Melilotus officinalis	Yellow Sweetclover													1			0.07	0.21	7
,	Penstemon palmeri	Palmer Penstemon											3					0.20	0.63	7
)	Sphaeralcea coccinea	Scarlet Globernallow					-		1				_	-				0.07	0.21	7
3	Tragopogon dubius	Yellow salsify		1					_									0.07	0.21	7
Shru	bs, Sub-shrubs, Cacti & Tree	25																		
)	Chrysothamnus nauseosus	Rubber Rabbitbrush	3													24		1.80	5.70	13
)	Fallugia paradoxa	Apache Plume	-										4					0.27	0.84	7
,	Gutierrezia sarothrae	Broom Snakeweed		10		7		1					6			2	15	3.13	9.92	47
,	Juniperus monosperma	One-seed Juniper	14	-	12								9		15			3.33	10.55	27
,	Opuntia spinosior	Walkingstick Cactus					2					1	_					0.27	0.84	20
)	Pinus ponderosa	Ponderosa pine	_	ļ					15									1.00	3.16	7
																			Mean	
		Total Plant Cover	37	38	27	26	13	28	26	33	35	31	34	24	35	52			31.60	
		Rock	2	9	5	1	32	9	21	4	1	2	9	0	0	0	12	1	7.13	
		Litter	34	40	39	42	14	36	33	41	25	41	30	55	36	36	25	1	35.13	
		Bare ground	27	13	29	31	41	27	20	22	39	26	27	21	29	12	28		26.13	
	Total F	Perennial & Biennial Cover	37	36	27	26	13	28	26	33	35	31	34	24	35	52	35		31.47	
	Sample Adequacy	Calculations						<i>t</i> =	1.76	513		n =	15							
	Sample Adequacy	calculations				Va	arian	ce =	73.5	i 4	nn	nin =	22.8	5						
	Diversit	ty				of Iı	mpor	tant	Pere	nnia	l or B	lienn	ial Sp)s. =	9	9				
	Perennial B - Biennial A - A	-		((>2%	'o Re	ative	e Cov	er o	r >19	% A v	erag	je Co	ver)						

	Reference Area- Ra	aw Data																		
			-				_					_					-	ed on Point		Samplir
_		Transect No.—->	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Average Cover	Relative Cover	Freq
Gras	sses and Grass-likes																	Cover	Cover	
>	Bouteloua gracilis	Blue grama	26	6	13	15	20	22	10	19	4	17	10	22	23	8	19	15.60	57.92	100
>	Hilaria jamesii	Galleta													1			0.07	0.25	7
)	Sitanion hystrix	Bottlebrush Squirreltail				1												0.07	0.25	7
ort	os																			
)	Sphaeralcea coccinea	Scarlet Globemallow															2	0.13	0.50	7
hr	ubs, Sub-shrubs, Cacti & Tree	S								•			•			•		•		
	Berberis fremontii	Fremont's Barberry			3													0.20	0.74	7
•	Gutierrezia sarothrae	Broom Snakeweed	8	2	13	6	4	8	6	2	1	8	9	5	6	1	13	6.13	22.77	100
>	Juniperus monosperma	One-seed Juniper		17						8	9	4						2.53	9.41	27
)	Opuntia polyacantha	Plains Pricklypear		1		2			5								2	0.67	2.48	27
2	Opuntia spinosior	Walkingstick Cactus													2	16		1.20	4.46	13
>	Pinus edulis	Two-needle Pinyon			5													0.33	1.24	7
																			Mean	
		Total Plant Cover	34	26	34	24	24	30	21	29	14	29	19	27	32	25	36		26.93	
		Rock	-	3	0	1	0	2	0	9	1	0	2	2	10	1	0		2.07	
		Litter		14	39	27	29	12	39	10	35	6	18	15	20	39	36		24.87	
		Bare ground	32	57	27	48	47	56	40	52	50	65	61	56	38	35	28		46.13	
	Total P	erennial & Biennial Cover	34	26	34	24	24	30	21	29	14	29	19	27	32	25	36		26.93	
	Sample Adequacy (Calculations							1.76			n =								
							-	<u>ce =</u>				<u>nin =</u>								
	Diversit	v					-			ennia			-			5				
		•			>2%	⁄o Ke	ative	e Cov	er o	r >19	% A V	erag	je Co	ver)						

.... -. . _ ----

Ta	ble A9 Cunningha	m ŀ	lill	- Ve	ege	tati	on	Der	nsit	y -	202	20	
	Erosion Area - Raw	Dat	ta										
												Sampling Metho	od: 2m x 50m Belt Transects
	Species	1	2	3	4	5	6	7	8	9	10	Total Count	Per Acre
S	Atriplex canescens				1	2	15	20		3	5	46	186.16
S	Cercocarpus montanus			1								1	4.05
S	Chrysothamnus nauseosus								4	24	49	77	311.61
S	Fallugia paradoxa								3			3	12.14
Su	Opuntia polyacantha	1			4	6	2					13	52.61
Su	Opuntia spinosior	1										1	4.05
Т	Pinus edulis	3										3	12.14
S	Senecio flaccidus var. flaccidus	2										2	8.09
Su	Yucca glauca			12	6							18	72.84
	T at a l	-	•	10		•	47	20	-		= 4	164	664
	Total	7	0	13	11	8	17	20	7	27	54	164	664
	Total by Lifeform			Shr	ub (S	5) =	522.	04			т	ree (T) = 12.14	
			Su	ccule	nt (S	u) =	129.	50		No	xiou	s (Nx) = 0.00	
		•											
	Sample Adequacy Calc.	t =	1.68	5		me	an =	16.4	0		va	ar. = 232.9	nmin = 245.86
	Church T. Turan, Cu. Curandant												

- _ -. _ × ... 2020

Та	ble A10 Cunning	nam	Hil	- \	/eg	eta	tior	ו De	ensi	ity ·	- 20	20						
	Open Pit - Raw Dat	a															Sampling Method:	2m x 50m Belt Transec
	Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Count	Per Acre
S	Atriplex canescens	1		4						1	6	8	2				22	59.4
S	Brickellia californica			1							1	1					3	8.1
S	Cercocarpus ledifolius						4	2	6	3				1	4		20	54.0
S	Cercocarpus montanus	1					6	3	2	7			1	1	1		22	59.4
S	Chrysothamnus nauseosus	46	25	37	46	12	1	26	3	49	3	48	26	21	39	5	387	1,044.1
S	Fallugia paradoxa		3				1	1	7	1				1	3		17	45.9
Т	Juniperus monosperma							2	1	3			1				9	24.3
Su	Opuntia polyacantha			3		2			2	1	1						9	24.3
Su	Opuntia spinosior			4	1			1				4	4				14	37.8
Т	Pinus edulis				2	6	2										10	27.0
Т	Pinus ponderosa												1				1	2.7
Т	Quercus gambelii		3														3	8.1
S	Rhus trilobata		33		1		35	29	50	22	5	4	13	78	56	2	328	884.9
Su	Yucca glauca				2							3					5	13.5
	Total	48	64	49	54	20	49	64	71	87	16	68	48	102	103	7	850	2,293.2
	Total by Lifeform	5) =	2,15	5.6	Т	ree ((T) =	62.1		Su	ccule	nt (S	u) =	75.5 Noxiou	us (Nx) = 0.0			
	Sample Adequacy Calc.	t =	1.68	5				me	an =	56.6	7				Va	ar. =	807.4 nr	nin = 71.38

										<u> </u>			
	Sludge Cell 1 - Rav	v Da	ta										
												Sampling Metho	d: 2m x 50m Belt Transect
	Species	1	2	3	4	5	6	7	8	9	10	Total Count	Per Acre
S	Atriplex canescens				2		1	1	17			21	85.0
S	Brickellia californica						2					2	8.1
S	Chrysothamnus nauseosus		2	4	9	14	7	4	67	15	4	126	509.9
S	Fallugia paradoxa										1	1	4.0
Т	Juniperus monosperma										1	1	4.0
Su	Opuntia polyacantha	10	1	12			1	2				26	105.2
Su	Opuntia spinosior	3	4									7	28.3
Su	Yucca glauca	1	6	3	5		5	4	3			27	109.3
		T											
	Total	14	13	19	16	14	16	11	87	15	6	211	853.9
	T-1-11-116-6	T		Shi	ub (S	S) =	607.	0			Т	ree (T) = 4.0	
	Total by Lifeform		Su	ccule	nt (S	5u) =	242.	8		No	xiou	s (Nx) = 0.0	
	Sample Adequacy Calc.	t =	1.68	5		me	an =	21.1	.0		Va	ar. = 548.1	nmin = 349.49
* C	Chrub T. Trop. Cu. Cucculor	- N.L.	Maria	_									

 Table A11
 Cunningham Hill - Vegetation Density - 2020

Table A12 Cunningham Hill - Vegetation Density - 202												
	Sludge Cell 2 - I	Raw Data										
		Sampling Me	ethod: 2m x 50m Belt Transects									
	Species	Total Count	Per Acre									
S	Atriplex canescens	7	28.3									
Т	Juniperus monosperma	1	4.0									
Su	Opuntia polyacantha	4	16.2									
Su	Opuntia spinosior	1	4.0									
Su	Yucca glauca	11	44.5									
	Total	24	97.1									
	Total by Lifeform	Shrub (S) = 28.3	Tree (T) = 4.0									
	Si	ucculent (Su) = 64.7 N	loxious (Nx) = 0.0									

Table A13 Cunning Waste Rock Top - I				/eg	eta	tior	ו De	ensi	ity -	- 20	20						
Sampling Method: 2m x 50m Belt Transects																	
Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Count	Per Acre
S Atriplex canescens							1				2	8	4		1	16	43.2
S Brickellia californica			24				5									29	78.2
S Chrysothamnus nauseosus		1	2							2		5	4	3	2	19	51.3
S Fallugia paradoxa															1	1	2.7
T Juniperus monosperma	1					1							7	1		10	27.0
Su <i>Opuntia polyacantha</i>	10	2	4	2	6	6		2	6	1	1	1	9		5	55	148.4
Su <i>Opuntia spinosior</i>	4	1				2	1		4			2	1	1	1	17	45.9
T <i>Pinus edulis</i>								4					1			5	13.5
S Rhus trilobata								1								1	2.7
S Senecio flaccidus var. flaccidus		1										1				1	2.7
Nx <i>Ulmus pumila</i>			1													1	2.7
Su <i>Yucca glauca</i>				1			2	1	6						3	13	35.1
Total	15	5	31	3	6	9	9	8	16	3	3	16	26	5	13	168	453.2
Total by Lifeform Shrub (S) = 180.8 Tree (T) = 40.5 Succulent (Su) = 229.3 Noxious (Nx) = 2.7																	
Sample Adequacy Calc.	+ =	1.68	25				me	an =	11.2	0				Va	ər. =	71.5 nn	nin = 161.71
S - Shrub T - Tree Su - Succulent	-		-					un –		•						, 110	mi — 1011/1

Та	ble A14 Cunningh	am	Hil	- \	/eg	eta	tior	ו De	ensi	ity ·	- 20	20						
	Waste Rock Slope - Raw Data																	
	Sampling Method: 2m x 50m Belt Transects																	
	Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Count	Per Acre
S	Atriplex canescens	1		1							3	1	3	2	1	5	17	45.9
S	Cercocarpus montanus				-					1							1	2.7
S	Chrysothamnus nauseosus	16			5							5		2	3	5	36	97.1
S	Fallugia paradoxa						4		1					1		1	7	18.9
Т	Juniperus monosperma	12	4	3	5	4	1	4	2		6		4	3	2	1	51	137.6
Su	Opuntia polyacantha	5	1	9	9	4			1		2	3	5	2	3	3	47	126.8
Su	Opuntia spinosior	2	1	4		14					7	1	4	5		2	40	107.9
Т	Pinus edulis	2	3	2	3	4	2	6	3	1	6	5	3	2	4	4	50	134.9
Т	Pinus ponderosa	5	1		3		5	11	3	1		1			1		31	83.6
Т	Quercus gambelii	1															1	2.7
S	Rhus trilobata														1		1	2.7
S	Senecio flaccidus var. flaccidus	2															2	5.4
Su	Yucca glauca			7				2	1	4						6	20	54.0
	Total	46	10	26	25	26	12	23	11	7	24	16	19	17	15	27	304	820.2
	Total by Lifeform Shrub (S) = 172.7 Tree (T) = 358.8 Succulent (Su) = 288.7 Noxious (Nx) = 0.0																	
	Sample Adequacy Calc.	t =	1.68	5				me	an =	20.2	.7				Va	ar. =	93.6 n	min = 64.72
~	Chrub T. Trees Cu. Cuesulant	N.I.	NI .															

Attachment 5.

Revised CCP Appendix H – pit waiver justification and request responses Amended Appendix H CUNNINGHAM HILL MINE OPEN PIT WAIVER JUSTIFICATION, PERMIT NO. SF002RE, SANTA FE COUNTY, NEW MEXICO

> October 2021 Revised May 2022

prepared for: LAC Minerals (USA) LLC 582 COUNTY ROAD #55 CERRILLOS, NEW MEXICO 87010 prepared by:



CUNNINGHAM HILL MINE OPEN PIT WAIVER JUSTIFICATION, PERMIT NO. SF002RE, SANTA FE COUNTY, NEW MEXICO

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> October 8, 2021 Revised May 27, 2022

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ATTACHMENTS

Attachment 1. Reclamation cost estimate details

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ABBREVIATIONS

ac-ft	acre feet
ac-ft/yr	acre feet per year
ARD	acid rock drainage
AWS	acid wall seepage
CHMRP	Cunningham Hill Mine Reclamation Project
CCP	Closure/Closeout Plan
ft amsl	feet above mean sea level
gpm	gallons per minute
JSAI	John Shomaker & Associates, Inc.
LAC	LAC Minerals (USA), LLC
MMD	Mining and Minerals Division
NF	nanofiltration
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMSA	New Mexico Statutes Annotated
NMWQCC	New Mexico Water Quality Control Commission
PMLU	Post Mining Land Use
RO	reverse osmosis
SSE	self-sustaining ecosystem
TDS	total dissolved solids

CUNNINGHAM HILL MINE OPEN PIT WAIVER JUSTIFICATION, PERMIT NO. SF002RE, SANTA FE COUNTY, NEW MEXICO

1.0 INTRODUCTION

This report was prepared for the Mining and Minerals Division (MMD) to provide technical and economic infeasibility and environmental unsoundness arguments in support of a request for a waiver from a self-sustaining ecosystem (SSE) for the LAC Minerals (USA), LLC (LAC) Cunningham Hill Mine Reclamation Project (CHMRP) reclaimed Open Pit (Fig. 1). This pit wavier justification report is based upon the requirements of the New Mexico Mining Act, New Mexico Statutes Annotated (NMSA) 1978, §69-36-1, et seq. (1993, as amended through 2001), particularly 19.10.5.507 of the New Mexico Administrative Code (NMAC). This report also addresses specific waiver-related comments in MMD's April 21, 2021, letter on CHMRP Updated Closure/Closeout Plan (CCP), Permit No. SF002RE (JSAI, 2020a).

1.1 CCP Background

In the original 1996 Closure-Closeout Plan (WESTEC, 1996), it was expected that the pit would recover to the pre-mining groundwater level condition of 6,900 feet above mean sea level (ft amsl), and that the addition of surface water from Upper Cunningham Gulch would cause the Open Pit to completely fill to the spill elevation of 6,990 ft amsl. The filling of the Open Pit with water would mitigate water-quality issues and reclaim pit benches and walls by submergence.

In 2002, Alternative Abatement Plan AP-27 was re-issued by the New Mexico Environment Department (NMED) which included alternative abatement standards for groundwater outside of the pit area, performance standards for pit filling by diverted stormwater, and a contingency plan. In addition, the NMED required reverse osmosis (RO) treatment of the Open Pit pool. In 2001, the CCP was updated (revision 96-1) to include the reclamation plan specified in AP-27.

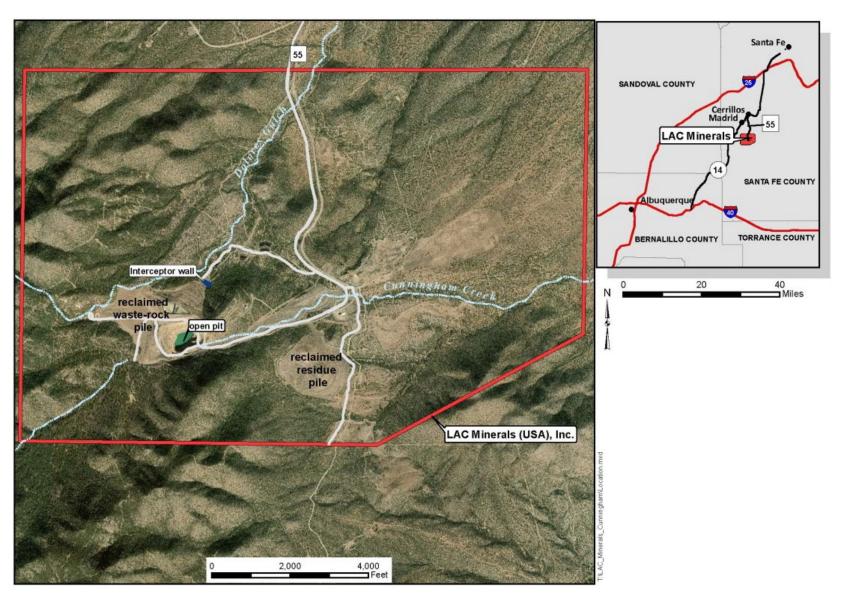


Figure 1. Aerial photograph of Cunningham Hill Mine Reclamation Project showing locations of LAC property boundary, Open Pit, and other reclaimed facilities.

Due to lingering drought conditions and the dewatering and geochemical effects of the required RO treatment in 2002, the Open Pit was not filling, RO treatment had stripped the Open Pit pool of alkalinity needed for buffering capacity, and water-quality triggers for sulfate and total dissolved solids (TDS) were enacted in 2009. A pilot program was implemented to determine if neutralization of in-pit generated acid wall seepage (AWS) could be remediated with alkaline water sources from the Residue Pile recovery system instead of imported hydrated lime (JSAI, 2010). It was recommended by JSAI (2010) to perform acid rock drainage (ARD) source control measures, and replace the use of hydrated lime for AWS mitigation with on-site alkaline water sources such as from Residue Pile recovery system and the Guest House Well.

JSAI (2011a) prepared a revised Open Pit waterbody reclamation plan for AP-27 to address source controls and Open Pit pool treatment to meet AP-27 water-quality standards. Implementation of source controls occurred between 2012 and 2018, and included: 1) repairs to the Upper Cunningham Gulch diversion, 2) stormwater controls in and around the Open Pit, and 3) resurfacing access roads and some bench areas with caliche. The revised AP-27 remediation plan does not rely on filling of the Open Pit with stormwater to meet water-quality standards; instead, the revised plan relies on source controls to minimize AWS. The revised AP-27 reclamation plan was approved by NMED (2012), and implemented as follows:

- 2012 Evaluate and design stormwater runoff source controls
- 2014 Obtain New Mexico Office of the State Engineer water right permit for the use of on-site alkaline water sources to add to Open Pit and build buffering capacity
- 2015 Perform pilot program to evaluate addition of alkaline water sources
- 2016 Repairs to Upper Cunningham Gulch Channel
- 2017 Add caliche to all roads within the pit watershed and to selected benches
- 2018 Performance monitoring of source controls
- 2019 Design and install nanofiltration (NF) treatment system
- 2021 Begin NF treatment

MMD letter dated September 26, 2019 stated "The current and original CCP for Cunningham Hill was submitted on March 1, 1996 and approved by the MMD in Permit Revision 96-1 to Permit No. SF002RE on December 13, 2002. The 1996 CCP describes a reclamation plan that is no longer accurate regarding the reclamation of the Open Pit, and will be changed significantly to meet the requirements of the New Mexico Mining Act, NMSA 1978, §69-36-1, et seq. (1993, as amended through 1999). The status of the Open Pit and the need to change the reclamation plan of the Open Pit in the 1996 CCP..."

The CCP was updated by JSAI (2020a), and included the Open Pit as achieving a selfsustaining ecosystem by completion of the AP-27 updated reclamation plan and additional reclamation measures of accessible disturbed areas by addition of caliche, growth medium, mulch, and seeding. On April 21, 2021, the MMD provided a letter to LAC regarding technical comments on application for revision 20-1 Closure/Closeout Plan Update, Cunningham Hill Mine, Permit No. SF002RE. The MMD does not consider the Open Pit a self-sustaining ecosystem as defined in 19.10.1.7 NMAC, and recommended modifying the application to request a pit waiver as described in 19.10.5.507.B NMAC.

1.2 Regulatory Requirements

The regulatory requirements for a pit waiver are defined in 19.10.5.507 NMAC Performance and Reclamation Standards and Requirements:

- **B.** Waiver for Pits and Waste Units An operator may apply for a waiver for open pits or waste units from the requirement of achieving a post-mining land use or self-sustaining ecosystem. The operator must show that achieving a post-mining land use or self-sustaining ecosystem is not technically or economically feasible or is environmentally unsound. The Director may grant the waiver for an open pit or waste unit if he finds:
 - (1) measures will be taken to ensure that the open pit or waste unit will meet all applicable federal and state laws, regulations and standards for air, surface water and ground water protection following closure; and
 - (2) the open pit or waste unit will not pose a current or future hazard to public health or safety. [7-12-94, 2-15-96; 19.10.5.507 NMAC Rn, 19 NMAC 10.2.5.507, 05-15-2001]

1.3 Objective

The objective of this report is to show that achieving a self-sustaining ecosystem (SSE) for the Open Pit is not technically or economically feasible, or is environmentally unsound as defined in 19.10.5.507.B NMAC. The Open Pit waiver would release LAC's requirements for SSE and Post Mining Land Use (PMLU) for the unreclaimed area. However, the CHMRP Open Pit water body will be maintained to meet applicable Open Pit water-quality standards for wildlife habitat and livestock watering established by the New Mexico Water Quality Control Commission (NMWQCC) and requirements defined in 19.10.5.507.B(2) NMAC.

The MMD, the New Mexico Mining Act, NMSA 1978, §69-36-1, et seq. (1993, as amended through 1999), has specific requirements for a SSE that cannot be met for an open pit that is not fully reclaimed by filling, backfilling, or reclamation of all pit walls and benches. The objective of this waiver justification is to demonstrate that it is technically infeasible to achieve SSE status for unreclaimed portion of the CHMRP Open Pit.

2.0 CHMRP OPEN PIT BACKGROUND

The CHMRP site is owned by LAC Minerals (USA) LLC, and the property boundary is defined by the red line on Figure 1. The Open Pit is within the CHMRP site boundary (Fig. 1).

2.1 Open Pit History

The CHMRP Open Pit was created during the Goldfields' mining operation that occurred between 1979 and 1987. The pit had been mined to a total depth of 536 ft, and consisted of 34.13 acres of disturbed area. The mined waste rock was deposited in Dolores Gulch which is now the reclaimed Waste Rock Pile, and the processed ore was deposited and formed the Residue Pile, which is also reclaimed.

After mining ceased in 1987, the Open Pit began to fill with groundwater and stormwater runoff generated from within the Open Pit watershed. In the 1990s, about 21 acres of the uppermost portions of the accessible areas of the Open Pit were reclaimed (Fig. 2) (also see JSAI, 2020a). The Open Pit pool is currently about an elevation of 6,800 ft amsl, and sediment has partially filled in about 35 ft of the pit bottom to where the maximum pool depth is currently about 100 ft.

2.2 Original Conceptual Closeout Design

The conceptual closeout design is described in the CCP (JSAI, 2020a), and AP-27 (NMED, 2002). Most of the remaining disturbed area, such as the pit walls and benches, would be reclaimed by filling with stormwater from Upper Cunningham Gulch (Adrian Brown Consultants, Inc., 1996) to the 6,945-ft-amsl elevation (Fig. 2). It was predicted that pit filling would take 35 years, provided that Upper Cunningham Gulch would generate an average of 101 acre-feet per year (ac-ft/yr) of stormwater. The filling of the Open Pit with stormwater was critical to reclamation of disturbed area and to improving water quality of the Open Pit. Environmental permits, water right permits, and infrastructure were in place for diversion of Upper Cunningham Gulch stormwater to the Open Pit by 2001. It was estimated that Open Pit filling would be completed by year 2036.

2.3 Relevant Studies

Since the issue of AP-27 in 2001, there have been a number of studies conducted by LAC to evaluate the feasibility of implementing the Open Pit reclamation and remediation specified in the CCP and AP-27 (JSAI, 2007; JSAI, 2009; JSAI, 2010; JSAI, 2011a; JSAI, 2014; and JSAI, 2020). The primary conclusion was, with source controls, the open pit did not have to fill to 6,945 ft to meet water quality standards.

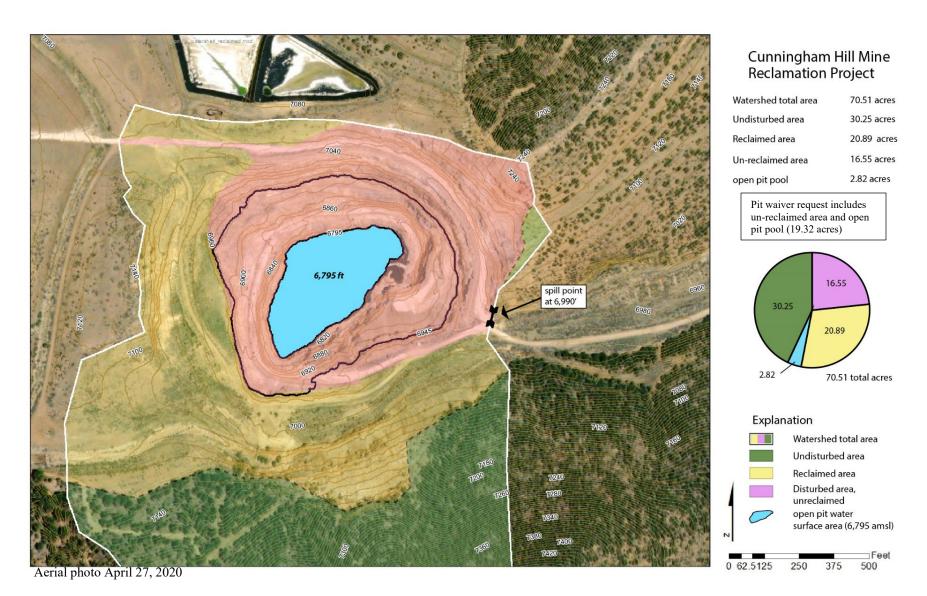


Figure 2. Aerial photograph of Open Pit showing undisturbed, disturbed, and reclaimed areas, Cunningham Hill Mine Reclamation Project.

2.3.1 Open Pit Pool Filling

A calibrated groundwater flow model was developed for AP-27 (JSAI, 1999). The model was updated in 2001 (JSAI, 2001) to evaluate the effects of NMED-required Open Pit RO treatment, and in 2011 (JSAI, 2011) when AP-27 Triggers 1 and 2 were enacted, and in 2020 (JSAI, 2020) as part of the CCP update.

Since about 2010, the Open Pit pool has been in pseudo-equilibrium with the surrounding water table where it may seasonally act as a sink, discharge to groundwater, or neither (JSAI, 2014). The addition of 82 ac-ft/yr of stormwater to the Open Pit would fill the pit while offsetting some loss to evaporation and groundwater outflow (JSAI, 2011) (Fig. 3). Model-simulated groundwater outflow has ranged between 4 to 8 gallons per minute (gpm). Figure 3 is a graph showing the observed and model-simulated Open Pit water level scenarios. Observed water levels have closely followed the "no diversion" simulation.

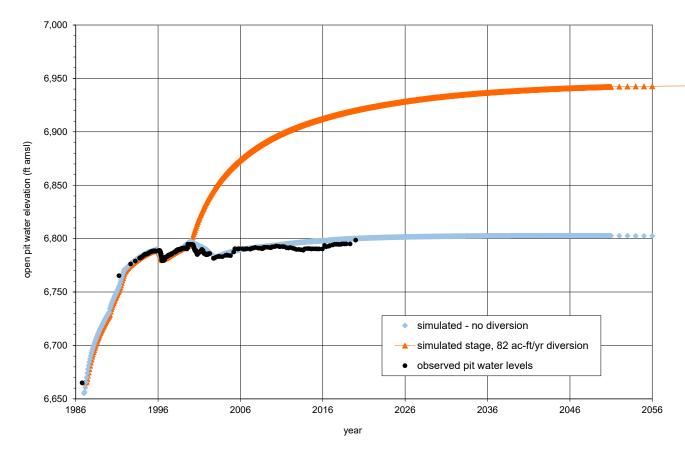


Figure 3. Graphs showing observed Open Pit water levels and model-simulated Open Pit water levels (with and without stormwater diversion).

Annual precipitation has significantly declined since the original 1996 CCP was developed and open pit filling was predicted. In the 1990s, the average annual precipitation was calculated to be 17 inches per year (JSAI, 1999). From 1998 to 2021, the average annual precipitation has been 13.05 in/yr (Fig. 4), with a maximum annual precipitation of 18.55 inches and a minimum annual precipitation of 7.49 inches. Climate change has significantly affected the ability for filling of the Open Pit with precipitation and runoff.

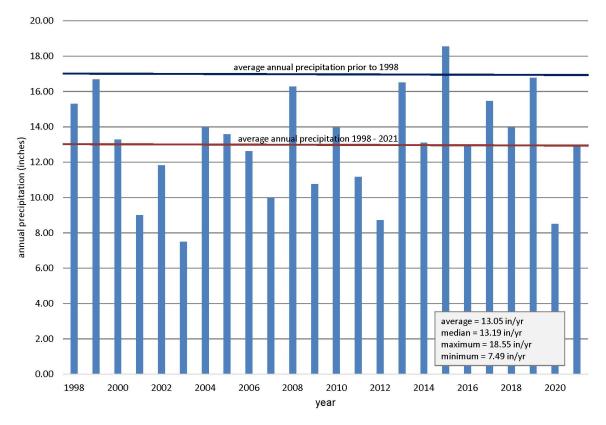


Figure 4. Bar graph of CHMRP annual precipitation for 1998 to 2021.

Currently, the Open Pit is filled with approximately 25 ac-ft of sediment and 205 ac-ft of water (Table 1). Considering there no losses to evaporation or groundwater outflow, approximately 890 acre-feet (ac-ft) of water is needed to fill the Open Pit from 6,800 to 6,945 ft amsl. Annual volumes of water would be required after filling to offset losses due to groundwater outflow and evaporation. JSAI (1999) estimated 64 ac-ft/yr of water would be required to maintain an open pit water level of 6,945 ft amsl, with 42 ac-ft/yr need to offset groundwater outflow and 22 ac-ft/yr needed to offset evaporation.

stage	volume (ac-ft)	volume (yds³)	comment
6,665	0	0	
6,675	5	8,661	
6,700	26	41,277	filled with sediment by 2021
6,725	57	92,644	
6,750	103	165,848	
6,775	162	260,890	
6,800	234	377,768	filled with water by 2021
6,825	321	517,361	
6,850	426	687,904	
6,875	557	898,933	
6,900	720	1,161,939	
6,925	926	1,493,314	
6,945	1,122	1,810,084	previous estimated fill elevation
6,975	1,476	2,380,669	
6,990	1,686	2,720,207	spill elevation

Table 1. Summary of Open Pit stage and fill volumes

ac-ft - acre-feet

The Upper Cunningham Gulch watershed is not able to produce the needed runoff for pit filing under the current watershed and climate conditions (JSAI, 2010; 2011). The ongoing drought conditions and increase in vegetation are primary issues limiting runoff from Upper Cunningham Gulch and the ability to fill the pit with water. The effects of these conditions on runoff were extensively examined by JSAI (2011; 2020), and it was concluded that the Open Pit would fill to about 6,810-ft-amsl elevation rather than the originally modeled 6,945-ft-amsl elevation.

From 2011 to 2014, measured Upper Cunningham Gulch storm-water flows were zero (Table 2). Measureable storm-water flows occurred after channel liner repairs were made to the Upper Cunningham Gulch in 2015, and limited watershed thinning was performed on about 90 acres in 2017 and 2018 (Table 2). The maximum measured storm-water flow was 20.15 ac-ft for 2019, which is significantly less than the required average annual amount to fill the open pit.

The only existing groundwater sources on-site, not connected to the Open Pit, include Residue Pile plume recovery wells and the Guest House Well (JSAI, 2010; JSAI, 2014). The recovery wells yield approximately 4 gpm or less, and the maximum capacity of the Guest House Well is about 15 gpm. Neither of these sources are adequate for open pit filling.

year	total precipitation (inches)	precipitation Gulch diversion watersh channel weir flow drain(comments
2011	11.17	0.00		
2012	8.72	0.00		
2013	16.51	0.01		
2014	13.09	0.00		
2015	18.55	0.79	1.13	fixed UCG diversion
2016	12.96	0.15	0.30	
2017	15.46	1.73		watershed thinning
2018	13.97	1.54		watershed thinning
2019	16.78	20.15		
2020	8.51	0.52		
2021	12.90	5.24		

Table 2. Summary of annual precipitation and measuredUpper Cunningham Gulch storm-water diversions

ac-ft - acre-feet

UCG - Upper Cunningham Gulch

2.3.2 Open Pit Pool Water Quality

Extensive water-quality modeling of the Open Pit pool was initially performed by Adrian Brown Consultants, Inc. (1996), and solute-transport modeling of Open Pit pool discharges to groundwater was modeled by JSAI (1999; 2001). Additional Open Pit pool water-quality evaluations were performed by JSAI (2010; 2011a). It has always been recognized that past AWS discharges have suppressed Open Pit pool pH and contributed to elevated dissolved solids (particularly sulfate, TDS, and metals). Past geochemical modeling (Adrian Brown Consultants, Inc., 1996; JSAI, 2001; JSAI 2010) has considered the impact of AWS on the Open Pit pool chemistry. The buffering capacity of the Open Pit pool and the rate and volume of introduced AWS have been the primary factors controlling Open Pit pool chemistry. Prior to implementation of AWS source controls, maintaining pH control in the Open Pit pool was required for meeting water-quality standards. Because the Open Pit was expected to fill with stormwater, interim AWS source controls were not considered as part of the original CCP and AP-27 plans. From 1997 to 2010, pH mitigation was performed by addition of hydrated lime (JSAI, 2011a). The Open Pit sulfate concentrations increased from 2003 to 2007, which initiated AP-27 Performance Standard APS-1 Trigger No. 1. A pilot remediation program was implemented to mitigate AWS effects on the Open Pit pool chemistry, and a detailed water-quality evaluation was performed (JSAI, 2010). It was concluded that source controls needed to be implemented before water-quality mitigation efforts can be effective and Open Pit pool chemistry could be predicted with confidence. Figure 5 is a time-series graph of Open Pit pool pH with notation regarding measures implemented for pH mitigation.

From 2015 to current, extensive AWS source-control measures were implemented as part of the revised AP-27 reclamation plan (JSAI, 2011a; 2014; 2020) (see Section 1.1). It was identified that the primary cause of AWS was the infiltration of stormwater from Upper Cunningham Gulch through the lined channel into waste rock because the liner was damaged and water infiltrated below the liner. Cunningham Gulch recharged the Golden Fault fracture system to the pit walls on the west side (JSAI, 2011). AWS has not been observed since the Upper Cunningham Gulch diversion channel liner was properly repaired, Open Pit watershed stormwater controls constructed, and covering selected benches and roads with caliche.

With AWS source controls successfully implemented, treatment of the Open Pit pool with Nano Filtration (NF) began in 2021. NF treatment is to primarily remove calcium and sulfate while preserving the Open Pit pool alkalinity. In addition, alkaline groundwater source from the Residue Pile plume recovery system and the Guest House well are added to the Open Pit to maintain chemical alkaline balance and to replace volume losses from the NF treatment process. It is anticipated that after completion of NF treatment, the Open Pit water chemistry will be maintained with implementation and maintenance of Open Pit source controls.

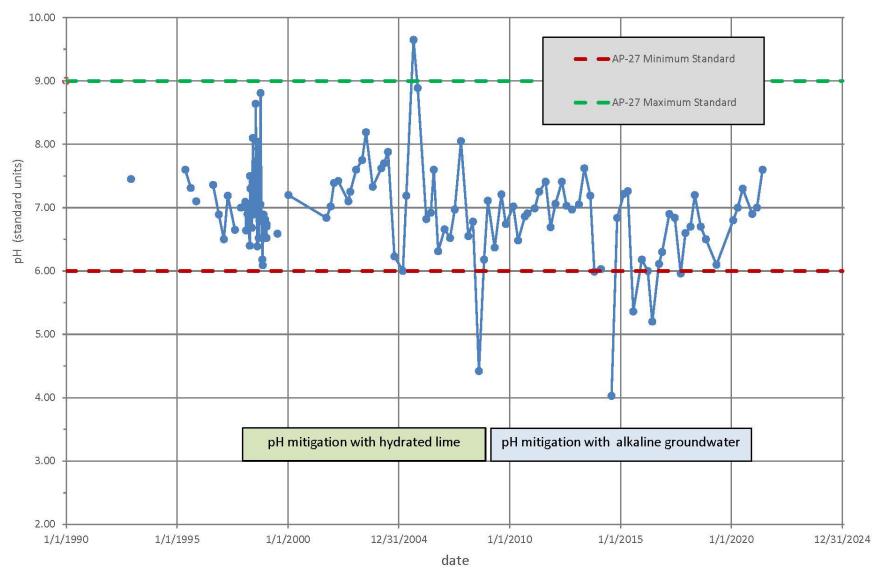


Figure 5. Time-series graph of Open Pit pool lab pH (4 ft depth) and pH mitigation measures.

2.4 Reclamation Efforts

As shown on Figure 2, approximately 21 acres around the Open Pit perimeter have been reclaimed by regrading, addition of cover soil, and re-vegetation.

JSAI (2011a) prepared a revised AP-27 reclamation plan that was based on pilot studies and Open Pit pool investigations between 2009 and 2011. The plan primarily included AWS source controls and water treatment (see Section 1.1). To date, the implemented source controls have eliminated AWS, and pH buffering has not been required for the past six years. The Open Pit waterbody currently meets the surface water quality standards for wildlife and livestock.

Ongoing reclamation efforts related to the CHMRP Open Pit revised plan (JSAI, 2011) primarily include assessment of AWS source controls and water treatment with NF. The NMED approved the water-treatment system workplan in 2018, and the system was constructed between 2019 and 2020. Water treatment began during the summer of 2021, with 1,582,560 gallons (4.9 ac-ft) treated as of August 2021. It was proposed to operate the treatment system seasonally, and the anticipated treatment goal of achieving AP-27 sulfate and TDS water quality criteria for groundwater discharges would be achieved in about 4 years (Jacobs, 2018).

An 8-ft chain-link fence will be installed around the Open Pit to restrict access to wildlife and humans. No other reclamation activities are currently planned, except monitoring the performance of and maintaining source controls and post-treatment Open Pit pool water quality.

With an approved pit waiver, the 16.55 acres of Open Pit walls and benches will remain unreclaimed. Open Pit access roads have been reclaimed by installation of stormwater controls and caliche cover. The Open Pit pool will likely stay around the current size of about 2.8 acres. The 0.56 acres of road along the west side of the Open Pit will be reclaimed with stormwater controls, caliche cover, and a seed mix. The repaired Upper Cunningham Gulch channel will remain in place to allow clean stormwater to flow to the Open Pit pool.

3.0 EVALUATION OF OPEN PIT RECLAMATION OPTIONS

The CHMRP Open Pit waiver justification for SSE requirements is based on a combination of economic and technical infeasibility, and environmental unsoundness considerations. The MMD (1998) published guidelines for SSE and how it is used in the context of the New Mexico Mining Act Rules. The MMD definition of SSE is as follows:

"Self-sustaining ecosystem" means reclaimed land that is self-renewing without augmented seeding, amendments, or other assistance which is capable of supporting communities of living organisms and their environment. A self-sustaining ecosystem includes hydrologic and nutrient cycles functioning at levels of productivity sufficient to support biological diversity

The most important MMD factor for evaluating SSE is "any post-mine land use that will involve continued maintenance and input by man will not be considered self-sustaining ecosystems." In other words, perpetual care for achieving post-mining land use and maintenance of source controls is not self-sustaining.

3.1 Open Pit Filling with Stormwater

Revised stormwater runoff scenarios were evaluated by JSAI (2011; 2020), and none of the scenarios generated enough stormwater to fill the Open Pit to the 6,945-ft-amsl elevation as anticipated in the original CCP. Significant changes to watershed conditions and above-normal precipitation for a prolonged time are required to fill the Open Pit. Given climate change, it is technically infeasible to rely on prolong periods of above-normal precipitation to achieve reclamation goals with set schedules.

LAC has invested in a watershed restoration program that involves selective thinning (JSAI, 2020a); however, it is unknown how much additional yield can be generated by watershed restoration and management. In addition, LAC property only includes a portion of the Upper Cunningham Gulch watershed. With partial ownership of the watershed, it is technically not feasible to fully implement restoration programs for increasing watershed yield. Furthermore, recurring watershed management practices for maintaining yield to the Open Pit may not be considered as self-sustaining.

3.2 Open Pit Filling with Groundwater

There are no known on-site alternate water sources that can be used to fill the Open Pit. At a minimum, a groundwater source capable of continuously yielding more than 100 gpm for 10 years is needed to fill the Open Pit. In the last 22 years of investigation, no such groundwater source disconnected from the Open Pit has been identified in the area. The highest yield wells onsite were former open pit dewatering wells (PW77-01 and PW79-02) for the Gold Fields Cunningham Hill Mine operations. It would be technically infeasible to fill the Open Pit with wells hydraulically connected to the limited fractured area around the Open Pit, because within a short time period one would simply be pumping out the same water placed in the Open Pit. The Guest House Well is the highest yield onsite well that is not connected to the Open Pit. The Guest House Well has a capacity of about 15 gpm. LAC has secured water rights for required CHMRP reclamation which includes open pit filling, but there is not a viable groundwater source onsite that can achieve the production rates needed for pit filling.

Past projects by JSAI have involved locating an offsite water source for potential future mining operations in the Ortiz Mountains (JSAI, 1998), and for the nearby communities of Cerrillos, Madrid, and Galisteo Basin Preserve. Based on these past evaluations, there are no known water-supply wells capable of sustaining over 100 gpm within a 25-mile radius. The Galisteo Basin of the Middle Rio Grande Underground Water Basin is closed to new water right appropriations. If an offsite source was identified for open pit filling, it would also be required in perpetuity to maintain the Open Pit water level. Using groundwater to achieve the original reclamation goals of filling the pit and maintaining the pit water level is technically infeasible because it would not meet the requirements of a SSE.

3.3 Feasibility of Backfilling

The concept of backfilling the Open Pit involves reclaiming the unreclaimed pit walls and benches to an elevation of 6,945 ft without disturbing the reclaimed Open Pit perimeter. The 6,945-ft elevation contour is shown on Figure 2. The north and east pit walls and benches above 6945-ft elevation would remain unreclaimed as in the 1996 CCP. The volume of material would depend if the Open Pit was partially backfilled or completely backfilled to 6,945-ft elevation. Based on fill volumes in Table 1, a theoretical volume of at least 1.8 million cubic yards of material would be required for backfilling. Identified sources of material for backfilling include:

- a. Reclaimed Waste Rock Pile or Reclaimed Residue Pile
- b. Material from a new borrow pit mine north of CHMRP Open Pit
- c. Caliche imported from Moriarty, New Mexico

The Waste Rock Pile is the waste material that was mined from the Open Pit and placed in Dolores Gulch and then reclaimed. The waste rock material is poorly sorted consisting of boulders to clay (derived from weathered rock), and the volume is estimated at 7 million cubic yards (JSAI, 2007a). Excavating the Waste Rock Pile for Open Pit backfill material would create over 100 acres of disturbed land that would require reclamation of the remaining waste rock and disturbed area. The Waste Rock pile material is not suitable for Open Pit backfill due to the high sulfide content and acid generating characteristics as demonstrated by the acid rock drainage (ARD) generated from the toe of the Waste Rock Pile when infiltration of meteoric water has occurred in the past (see DP-55 annual reports). A backfilled Open Pit would behave as a flow through system, where recharge to the backfill material would generate ARD and discharge to groundwater which is environmentally unsound. Backfilling the Open Pit with waste rock is environmentally unsound, and would likely cause significant groundwater quality degradation.

The Residue Pile was created during the Gold Fields Mining Company Cunningham Hill Mine operations between 1979 and 1987. The Residue Pile contains processed rock (crushed and leached) originating from the Cunningham Hill Mine. Leachate from the Residue Pile contained the following constituents of concern: nitrate, cyanide, and cobalt. The Residue Pile contains about 1.2 million cubic yards of material. Backfilling the Open Pit with Residue Pile material is environmentally unsound, and would likely cause significant groundwater quality degradation.

Open Pit backfill material from an onsite borrow pit would require location of a material source, access to the borrow pit area, permitting of the borrow pit, and reclamation of borrow pit. Most all of the readily accessible on site soil has been used for reclamation of the Waste Rock Pile, Residue Pile, and Open Pit perimeter (see CCP fig 3). The geology underlying the soil horizon at the site is predominately igneous rocks of quartz monzonite and other intrusive rocks with varying amounts of sulfide content. Significant cover material would be required to reclaim a borrow pit and it is not available on site. Creating an onsite borrow mine pit to fill the Open Pit is technically infeasible because the solution creates the problem of an unreclaimed open pit that does not meet the MMD requirements for a SSE.

Caliche from a borrow pit near Moriarty, New Mexico has been used for Open Pit AP-27 reclamation efforts. Caliche consists of gravel, sand, silt, and a calcium carbonate cement matrix. The Moriarty caliche borrow pit contains more than 2 million cubic yards of material (personal communication with Sean Grossetete at EnviroWorks, LLC). The Moriarty caliche pit is 43 miles from the CHMRP Open Pit.

3.3.1 Backfilling to 6,945-ft Elevation

The concept of backfilling the Open Pit to 6,945-ft elevation is illustrated by the west to east Open Pit cross-section presented as Figure 6. Backfilling to 6,945-ft elevation would create a flat surface within the Open Pit to where the stormwater runoff would collect and likely infiltrate; there would be no outlet for stormwater flows. The Open Pit would need to be backfilled to the 6,990 ft elevation in order to create stormwater conveyance structures that exit the Open Pit area (Fig. 2).

The theoretical open pit fill volume to 6,945 ft elevation is 1,810,084 cubic yards (yd³) (Table 1). Currently, the Open Pit contains approximately 41,000 yd³ of accumulated sediment and 377,000 yd³ of water (Table 1). The existing sediment and water would fill the pore spaces of the backfill as it is added. Considering 25 percent porosity for backfill, the pore space has a volume of about 452,500 yd³. Backfilling the Open Pit to the 6,945 ft elevation would require at least 2,100,000 yd³ of material when considering fill volume, 85 percent compaction factor, and incorporation of existing accumulated sediment and water. Backfilling and incorporation of the existing Open Pit waterbody will likely cause saturated conditions within the pit to rise to the 6,925 ft elevation (considering 25 percent porosity and 200 ac-ft of water).

3.3.2 Partial Backfilling

The concept of partial backfilling the Open Pit to 6,945 ft amsl elevation is illustrated by the west to east Open Pit cross-section presented as Figure 6. Partial backfilling to 6,945 ft amsl elevation would create a bowl-like surface within the Open Pit to where the stormwater runoff would collect and likely infiltrate; there would be no outlet for stormwater flows. The slopes of the reclaimed surface would be equivalent to 3H:1V from 6,945 ft amsl elevation along the pit walls to center of the Open Pit. The center of the Open Pit would have a final elevation of 6,860 ft amsl.

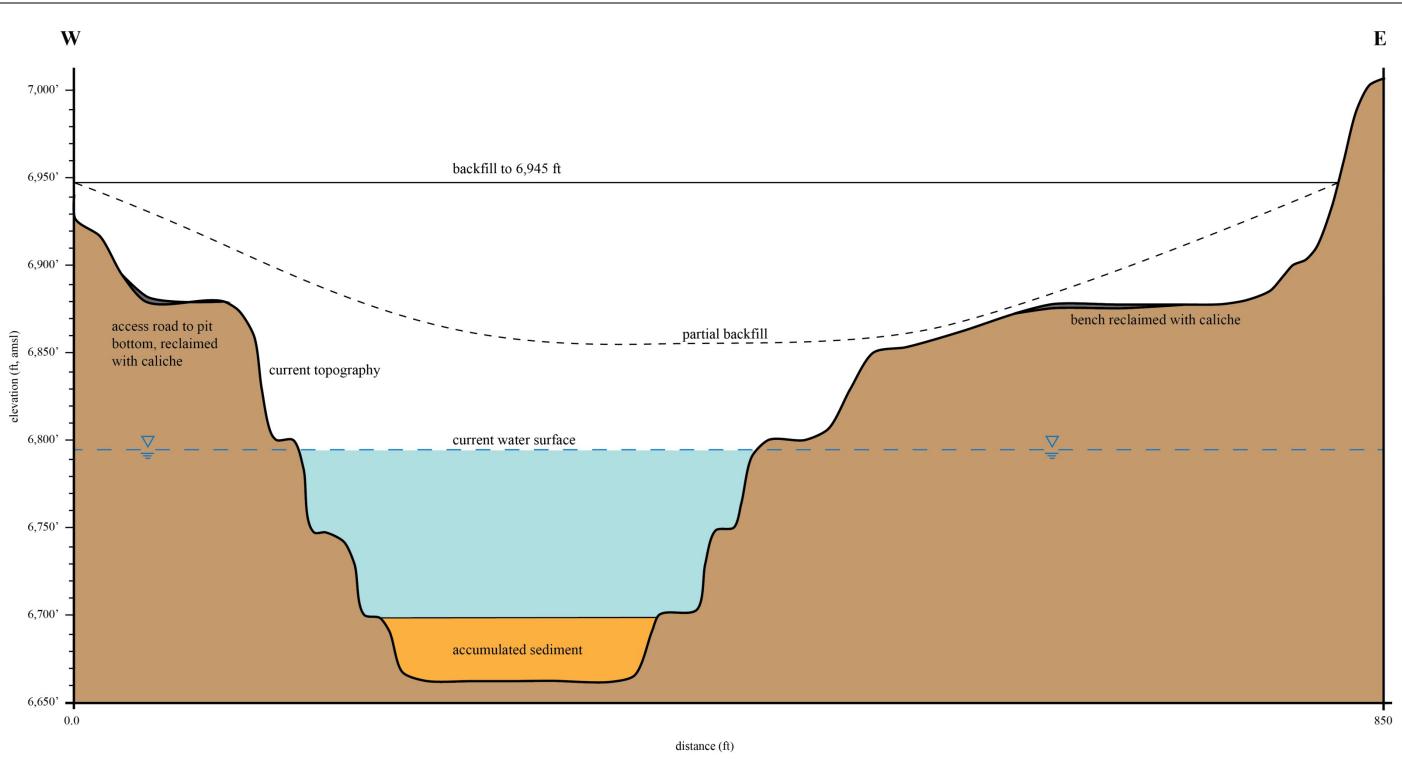


Figure 6. West-to-east cross-section schematic of the Cunningham Hill Mine Open Pit showing backfilling options.

The theoretical open pit partial backfill volume to 6,945-ft-amsl elevation at the Open Pit walls and 6,860 ft amsl at the Open Pit center is 1,206,723 cubic yards (yd³). Currently, the Open Pit contains approximately 41,000 yd³ of accumulated sediment and 377,000 yd³ of water (Table 1). The existing sediment and water would fill the pore spaces of the backfill as it is added. Considering 25 percent porosity for backfill, the partial backfill pore space has a volume of about 200,000 yd³ to an elevation of 6,860 ft amsl. The remaining 211,000 yd³ (130 ac-ft) of water would form a pit lake to about the 6,900-ft elevation and then slowly drain to groundwater.

Partial backfilling the Open Pit to the 6,945 ft elevation would require at least 1,420,000 yd³ of material when considering fill volume, 85 percent compaction factor, and incorporation of existing accumulated sediment and water. Backfilling and incorporation of the existing Open Pit waterbody will likely cause saturated conditions to rise within the pit to the 6,925 ft elevation (considering 25 percent porosity and 200 ac-ft of water). Depending on the need for construction water, it is possible a pit lake will form at the 6,900 ft elevation. The north and east side unreclaimed pit walls and benches would drain stormwater to the reclaimed pit bottom creating a similar condition that is observed today.

3.4 Economic Feasibility of Open Pit Filling Alternatives

Where hard-rock mine open pit backfilling is practical, it has typically occurred wither concurrently with the mining or upon completion of the mining phase of the operations (BLM Handbook H-3042-1, 1992). Cunningham Hill mine ceased operations around 1986, and a significant percentage of CHMRP disturbed areas has already undergone reclamation (this includes a significant area of the open pit perimeter) and have been released. For these reasons backfilling is not economically feasible.

There are no other viable sources for backfilling the Open Pit other than imported material. Presented in Table 3 is an estimate to import fill material from the Moriarty quarry, which is purely based on the cost of material, trucking, and placement; no other costs are included. The Standardized Reclamation Cost Estimator by Parshley et al. (2012) was used to calculate the costs in Table 3. Additional cost estimating details can be referenced from Attachment 1.

The time to backfill by importing material is estimate to take 15.4 years, which is based on trucking 500 yd³/day for 5 days/week. The cost analysis demonstrates that backfill with imported material is economically infeasible, particularly when considering cost due to indirect effects such as damage to public roads. The trucking route would suffer significant damage, and communities along the trucking route, such as Madrid, would be significantly impacted (no cost is include in Table 3 for road repair). For the reasons stated above, importing 1.4 or 2.1 million cubic yards of material for Open Pit backfill would be economically infeasible.

item	unit	unit cost	quantity	cost*						
Ba	nckfill to 6,94	5 ft elevation								
Mobilize/demobilize	Mobilize/demobilize lump sum \$36,947									
backfill material cost	yd ³	\$40.00	2,100,000	\$84,000,000						
load/haul/place/reveg	yd ³	\$43.96	2,100,000	\$92,323,827						
construction management/support	month	\$102,166	195	\$19,922,488						
indirect items (engineering, contingency, insurance, contractor profit, contract admin)	lump sum	\$44,743,678	1	\$44,743,678						
	TOTAL									
Partia	l Backfill to	6,945 ft elevatio	n							
Mobilize/demobilize	lump sum	\$36,947	1	\$36,947						
Backfill material cost	yd ³	\$40.00	1,420,000	\$56,800,000						
load/haul/place/reveg	yd ³	\$44.46	1,420,000	\$63,134,227						
construction management/support	month	\$144,243	131	\$18,895,812						
indirect items	lump sum	\$33,805,388	1	\$33,805,388						
			TOTAL	\$172,672,374						

Table 3. Estimated cost to backfill CHMRP Open Pit

SRCE Calculation tool Parshley et al., 2012

* SRCE costs are based on \$2.13/gallon for diesel. Current diesel price is over \$6.00/gallon

Onsite storm water would be economically feasible if there was an adequate quantity for pit filling that was also reoccurring to maintain the open pit water level. LAC has implemented significant watershed restoration efforts (90 acres) at a cost of about \$1,500 per acre. Restoration of the 1,260 acre watershed would cost \$1,890,000, which maybe economically feasible if the enough storm water was generated for open pit reclamation and maintaining a SSE.

The only known groundwater sources are more than 25 miles away. Filling with groundwater would require perpetual care because groundwater pumping would be required annually after filling to maintain pit water levels required to achieve a SSE. Perpetual care does not meet the requirement for SSE.

3.5 Technical Feasibility of Open Pit Filling Alternatives

As proven from the last 20 years of site data, storm-water management has been deemed technically infeasible, and is not a viable source for pit filling and maintaining the open pit water level. The largest watershed yield recorded in the last 10 years was 20.15 ac-ft in 2019; which was likely due to above average precipitation and restoration (thinning) of 90 acres. An average 82 ac-ft/yr of stormwater is required fill and maintain the open pit, which is does not possible by watershed restoration alone. Furthermore, watershed restoration would need to be performed every 20 years, which is not self-sustaining.

The use of offsite groundwater is technically feasible for pit filling, however offsite groundwater will be required to maintain the open pit water level, which results in perpetual care and technical infeasibility.

Backfilling scenarios for backfilling to 6,945 ft elevation and partial backfilling are technically possible, however both scenarios result in capture of stormwater flows from unreclaimed pit walls and benches, possible creation of a pit lake, and a flow through system to groundwater. Creation of a pit lake with unreclaimed pit walls and benches that drain to the pit lake is no different than the current open pit. Stormwater controls with a backfill that drains out of the reclaimed open pit would be required for water-quality standards that support a SSE. To do this the backfill would need to be to the 6,990 ft elevation, which would require over 2.7 million cubic yards of material. There is no known volume of available onsite material that is suitable for backfill.

3.6 Environmental Soundness of Open Pit Filling Alternatives

Filling the open pit with storm water is environmentally sound, if enough storm water were available to fill to the 6,945 ft elevation. Filling with groundwater is not environmentally sound because of perpetual care and associated perpetual groundwater pumping, which would cause streamflow depletions or groundwater mining from the over-appropriated Middle Rio Grande Underground Water Basin.

Backfilling with material from the Waste Rock Pile or Residue Pile is environmentally unsound because it would mobilize contaminants and create far worst water quality issues than what has already been observed at CHMRP.

Backfilling to 6,945 ft elevation would create a pit lake with unreclaimed pit walls and benches that drain to the pit lake is no different than the current open pit. Discharge of contaminants from stormwater runoff to the backfilled open pit creates discharges to surface water and groundwater that can be deemed environmentally unsound.

Backfilling scenarios require trucking and heavy equipment for at least a 15 year period. The carbon generated from backfilling would contribute to the currently defined climate crisis (Executive Order 14008). One liter of diesel generates 2.68 kg of carbon dioxide when consumed. Using an average fuel consumption of 6.5 miles per gallon, a total of 14,809 tons of carbon dioxide would be generated as a result of trucking to backfill the open pit with 2,100,000 yd³ of offsite material. Generation of significant quantities of carbon dioxide is not environmentally sound and detrimental to the environment.

4.0 ENVIRONMENTAL CONTROL MEASURES

CHMRP Open Pit environmental control measures are specified in Alternative Abatement Plan AP-27 (NMED, 2002). AP-27 measures and future revisions of AP-27 measures will ensure that the Open Pit will meet all applicable federal and state laws, regulations and standards for air, surface water and ground water protection following closure.

4.1 Surface Water

The current Open Pit pool water chemistry meets applicable surface water standards (as defined by NMED, 2021) (see Table 4). With implemented Open Pit source controls (2012 to 2019) the concentration of dissolved metals are expected to be maintained at concentrations less than applicable surface water standards. Current, NF treatment is being performed to comply with AP-27 groundwater discharge standards (Table 4).

4.1.1 Chemical Treatment Methods

Surface water standards will also be maintained as a result of the implemented source control measures defined in the revised AP-27 remediation plan (JSAI, 2011). Open Pit pool chemical treatment methods include pH mitigation with alkaline groundwater sources and nanofiltration treatment. NMED issued permits DP-55 and AP-27 allow for the use of on-site alkaline groundwater sources from the Guest House well and Residue Pile Recovery wells for Open Pit pool pH mitigation.

4.2 Groundwater

The NMED approved membrane filtration treatment system work plan has been implemented, and the Open Pit pool is currently being treated to remove sulfate and TDS for compliance with AP-27 groundwater discharge standards. NF treatment is currently in progress, and is primarily for mitigating Open Pit pool sulfate and TDS concentrations so AP-27 standards for groundwater discharge are maintained. NF treatment is expected to be completed by 2024, at which time it is expected that pit-lake water quality will be sustained by the continued maintenance of source controls that are currently in place.

Table 4.	Summary of AP	2-27 groundwater a	nd surface-water	quality standards and	d monitoring results
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			<b>T</b>	

constituent	unit	AP-27 groundwater discharge	surface water trigger	Livestock Watering Standard	Wildlife Habitat Standard	Limited Aquatic Life - Acute	Open Pit water body (4 ft depth) ²	comment
		Standard	level	Standard	Standard	Standard	May 2021	
alkalinity	mg/L		<20				37	
pН	S.U.	6 to 9					7.6	
chloride	mg/L	250					23.8	
sulfate	mg/L	1,200 b					1,570	
TDS	mg/L	2,000 b					2,340	
conductance	μS/cm		6,300				2,670	
aluminum ¹	mg/L	5				10.07	< 0.40	
arsenic	mg/L	0.01		0.2		0.34	< 0.125	
boron	mg/L	0.75		5.0				
cadmium ¹	mg/L	0.005		0.05		0.0065	0.000527	
chlorine residual	mg/L				0.011	0.019	< 0.0002	January 2020 lab analysis
chromium III ¹	mg/L					1.77		total chromium is less than Cr III standard
chromium VI	mg/L					0.016	na	need lab analysis
chromium	mg/L	0.05		1.0			< 0.030	
cobalt	mg/L	0.2 b		1.0			0.0469	
copper ¹	mg/L	1		0.5		0.05	0.04	January 2020 lab analysis
iron	mg/L	1					< 0.50	
lead ¹	mg/L	0.002		0.1		0.28	< 0.0075	January 2020 lab analysis
manganese ¹	mg/L	4.0 b				4.738	2.23	
mercury	mg/L	0.002			0.01	0.0014	< 0.00020	
molybdenum	mg/L	1				7.920	< 0.008	January 2020 lab analysis
nickel	mg/L	0.2				1.51	0.0237	January 2020 lab analysis
selenium	mg/L	0.05		0.05	0.005	0.02	< 0.0030	
silver ¹	mg/L	0.05				0.035	na	need lab analysis
vanadium	mg/L			0.1			< 0.005	January 2020 lab analysis
zinc ¹	mg/L	10		25		0.564	0.164	
1 40.27 1	4 1. 1	4 1 1	•				•	TDC + (11' - 1 - 1)'1

b AP-27 groundwater discharge standard red indicates exceedance of applicable standard CHMRP - Cunningham Hill Mine Reclamation Project

TDS - total dissolved solids mg/L - milligrams per liter  $\mu$ S/cm - microsiemens per centimeter

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# 4.3 CCP Reclamation Measures

Other environmental control and reclamation measures identified in the revised CCP include the following:

- 1. Open pit NF water treatment. Currently in progress.
- 2. Installation of open pit perimeter fence
- 3. Work with NMG&F to establish alternative water source for wildlife.
- Reclamation of 0.56 acres related to west side open pit road by adding 450 yd³ caliche with storm-water runoff controls.
- 5. Reclamation of RO ponds when NF treatment is no longer required for AP-27.
- 6. Reclamation of ARD ponds as defined in renewed DP-55.
- 7. Waste Rock Pile repairs as required by DP-55. In progress.

## 5.0 ACCESS CONTROLS

LAC owns the property containing the Open Pit, which allows for implementation of controls to ensure the Open Pit will not pose a current or future hazard to public health or safety.

## 5.1 Human Health and Safety

Human health and safety concerns regarding the Open Pit are primarily controlled by limited access to authorized personnel. The entrance to the LAC property is secured with a locking access gate and perimeter fencing with signs. The Open Pit access road is maintained to prevent hazards related to access for permit compliance. Installation of perimeter fencing is in the planning stages.

## 5.2 Wildlife and Stock

Measures to protect wildlife include those in AP-27 to maintain surface water quality standards and specific requires in the CCP, such as fencing. No other access controls are anticipated to protect wildlife. Currently, LAC does not graze livestock, and will likely not graze livestock in the future, unless it is determined to be beneficial for watershed health.

# 6.0 CONCLUSION

JSAI has evaluated four reclamation options for achieving a post-mining land use or selfsustaining ecosystem related to 19.38 acres of unreclaimed open pit walls and benches and the existing open pit waterbody. Each option was evaluated for technical feasibility, economical feasible, and environmentally soundness. As described in Section 3.0, the alternatives considered for reclamation of the Open Pit are summarized in Table 5.

Open Pit reclamation option	technically feasible	economically feasible	environmentally sound
Fill with storm water	no	yes	yes
Fill with groundwater	no	no	no
Partial backfill	no	no	no
Backfill to 6,945 ft elev	no	no	no
Backfill to 6,990 ft elev	no	no	no

 Table 5. Summary of open pit reclamation options

All reclamation alternatives considered were deemed technically infeasible. There is not a demonstrated reliable and recurring source of storm-water flows, even with complete watershed restoration. Filling with groundwater results in a perpetual care condition where groundwater pumping is required to maintain the open pit water level, therefore does not achieve the SSE status. Backfilling options below 6,990 ft elevation potentially create a pit lake that receives stormwater runoff from the remaining unreclaimed open pit walls and benches. Infiltrated stormwater would also drain to groundwater (flow through system). Backfilling to 6,945 ft elevation is technical infeasible because it potentially creates that same present day condition without further reclamation. Backfilling to 6,990 ft elevation to allow stormwater to drain out of the open pit is technically infeasible because there is no known volume of suitable material, onsite or offsite.

Only filling with stormwater is considered economically feasible, if storm water were available. All other alternatives were considered economically infeasible due to the over burdensome costs. Likewise, all alternatives, other than filling with stormwater, are environmentally unsound, due to surface water and groundwater contamination issues or creating excessive carbon emissions.

# 7.0 REQUEST FOR WAIVER

As stated by 19.10.5.506.C NMAC Upon a showing that achieving a post-mining land use or self-sustaining ecosystem is not technically or economically feasible or is environmentally unsound, the Director may waive the requirement to achieve a self-sustaining ecosystem or postmining land use for an open pit or waste unit if measures will be taken to ensure that the Open Pit or waste unit will meet all applicable federal and state laws, regulations and standards for air, surface water and ground water protection following closure and will not pose a current or future hazard to public health or safety.

LAC is requesting an SSE waiver for 19.38 acres of the Open Pit (Fig. 2), which includes the open pit waterbody and the unreclaimed walls and benches. Achieving a post-mining land use or self-sustaining ecosystem is not technically or economically feasible and environmentally unsound for the 19.28 acres of open pit. As required by AP-27, water quality standards for the open pit water body will be maintained. In addition, the following has been reclaimed to comply with applicable state laws, regulations, and standards:

- 20.89 acres of the pit perimeter has been recontoured with successfully established growth medium
- AWS source controls have been implemented
- The upper Cunningham Gulch stormwater water conveyance has been repaired and made functional
- Stormwater controls have been implemented, such as collection on the northside, and properly established in-pit drainage controls
- All access roads and some bench areas have been covered with caliche
- the Open Pit pool pH of 6 or greater is self -maintained

For the various reasons discussed in Section 3.0, LAC is requesting an SSE waiver for the open pit waterbody and the un-reclaimed Open Pit walls and benches, which consist of 19.38 acres.

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Attachment 1.

**Reclamation cost estimate details** 

## Closure Cost Estimate Cost Summary Project Name: Open Pit Backfill to 6,945 ft Project Date: May 25, 2022 Model Version: Version 1.4.1 File Name: Cunningham Hill Pit Backfill stf.xlsm

A. Earthwork/Recontouring	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads	\$0	\$0	\$0	\$0
Well Abandonment	\$0	\$0	\$0	\$0
Pits Quarries & Borrow Areas	\$0 \$0	\$0 \$0	N/A \$0	\$0 \$0
Underground Openings	\$0	\$0 \$0	\$0	\$0
Process Ponds	\$0	\$0	\$0 \$0	\$0
Heaps	\$0	\$0	\$0	\$0
Waste Rock Dumps	\$0	\$0	\$0	\$0
Landfills	\$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$0	\$0	\$0 \$0
Drainage & Sediment Control Generic Material Hauling	\$0 \$31,533,142	\$0 \$60,782,616	\$0 \$0	\$0 \$92,315,758
Other User Costs (from Other User sheet)	\$31,333,142	\$00,782,010	\$84,000,000	\$84,000,000
Other**	¢.	¢0	\$61,000,000	\$0
Subtotal	\$31,533,142	\$60,782,616	\$84,000,000	\$176,315,758
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	\$0
Mob/Demob				\$0
Subtotal "A"	\$31,533,142	\$60,782,616	\$84,000,000	\$176,315,758
B. Revegetation/Stabilization	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads	\$0	\$0	\$0	\$0
Well Abandonment				N/A
Pits	\$0	\$0	\$0	\$0
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings		**		N/A
Process Ponds	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Heaps Waste Rock Dumps	\$0	\$0 \$0	\$0 \$0	\$0 \$0
Landfills	\$0	\$0 \$0	\$0 \$0	\$0
Tailings	\$0	\$0 \$0	\$0 \$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$0	\$0	\$0
Drainage & Sediment Control	\$0	\$0	\$0	\$C
Generic Material Hauling	\$1,924	\$687	\$5,458	\$8,069
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$0
Subtotal "B"	\$1,924	\$687	\$5,458	\$8,069
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Process Ponds/Sludge				\$0
Heaps				\$0
Dumps (Waste & Landfill)				\$0
Tailings Surplus Water Disposal				\$0 \$0
Monitoring				\$0
Miscellaneous				\$0
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				
Hydrocarbon Contaminated Soils				\$0
	\$0	\$0	\$0	\$( \$(
Other User Costs (from Other User sheet)	\$0 \$0	\$0 \$0	\$0 \$0	\$( \$) \$) \$)
Other User Costs (from Other User sheet) Other**	\$0	\$0	\$0	\$0 \$0 \$0 \$0 \$0 \$0
Other User Costs (from Other User sheet)	\$0 \$0	\$0 <b>\$0</b>		\$0 \$0 \$0 \$0 \$0 \$0
Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	\$0 \$0 Labor ⁽¹⁾	\$0 \$0 Equipment ⁽²⁾	\$0 \$0 Materials	\$0 \$0 \$0 \$0 \$0 \$0 <b>Total</b>
Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas	\$0 \$0 Labor ⁽¹⁾ \$0	\$0 \$0 Equipment ⁽²⁾ \$0	\$0 \$0 Materials \$0	\$0 \$0 \$0 Total \$0 \$0
Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition	\$0 \$0 Labor ⁽¹⁾ \$0 \$0	\$0 \$0 Equipment (2) \$0 \$0 \$0 \$0 \$0	\$0 \$0 Materials \$0 \$0	\$( \$( \$( \$( \$( \$( \$( Total \$( \$( \$( \$( \$) \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$( \$) \$() \$(
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Other User Costs (from Other User sheet)         Other**         Subtotal "C"    D. Structure, Equipment and Facility Removal, and Misc.          Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other "*	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Materials \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Si           Si           Si           Si           Total           Si
Other User Costs (from Other User sheet)         Other**         Subtotal "C"    D. Structure, Equipment and Facility Removal, and Misc.          Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other**         Subtotal "D"	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Materials \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$6           \$5           \$5           \$6           \$7           Total           \$6           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10           \$10
Other User Costs (from Other User sheet)         Other**         Subtotal "C"    D. Structure, Equipment and Facility Removal, and Misc.          Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other "*	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Materials \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Si Si Si Si Si Si Si Si Si Si Si Si Si S
Other User Costs (from Other User sheet)         Other**         Subtotal "C"             D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other "*"         Subtotal "D"         E. Monitoring         Reclamation Monitoring and Maintenance	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Materials \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1           \$1
Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Pipe Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other**         Subtotal "D"	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Materials \$0 \$0 \$0 \$0 N/A N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

## Closure Cost Estimate Cost Summary Project Name: Open Pit Backfill to 6,945 ft Project Date: May 25, 2022 Model Version: Version 1.4.1 File Name: Cunningham Hill Pit Backfill stf.xlsm

The Name: Outliningham	THE TR BUCKE	11 311.8311		
F. Construction Management & Support	Labor	Equipment (2)	Materials	Total
Construction Management	\$5,508,360	\$992,160	N/A	\$6,500,520
Construction Support	\$0	\$84,708	\$0	\$84,708
Road Maintenance	\$5,928,000	\$7,409,220	\$0	\$13,337,220
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "F"	\$11,436,360	\$8,486,088	\$0	\$19,922,448
Subtotal Operational & Maintenance Costs	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials ⁽³⁾	Total
Subtotal A through F	\$42,971,426	\$69,269,391	\$84,005,458	\$196,246,275

** Other Operator supplied costs - additional documentation required.

#### **Closure Cost Estimate Cost Summary** Project Name: Open Pit Backfill to 6,945 ft Project Date: May 25, 2022 Model Version: Version 1.4.1 File Name: Cunningham Hill Pit Backfill stf.xlsm

Indirect Costs		Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)			\$7,849,85
2. Contingency (8)			\$7,849,85
3. Insurance (9)	\$644,571		\$644,57
4. Performance Bond (10)			
5. Contractor Profit (11)			\$19,624,628
6. Contract Administration (12)			\$11,774,77
7. Government Indirect Cost (13)			
Subtotal Add-On Costs			\$47,743,678
Total Indirect Costs as % of Direct Cost			24%
GRAND TOTAL			\$243,989,953

		Cost Ran	ges for Indirect Co	st Percentage	s
	<=	<=	<=	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	\$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	\$25,000,000		\$25,000,000	
Variable Rate	10%	8%		6%	
Government Indirect Cost (13)	21%	of contract administ	tration		

#### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading, overhead

The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the submitted
 Miscellaneous items should be itemized on accompanying worksheets.

4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper 5

Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced, Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid, 6.

7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To

8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.

10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is

For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
 To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

13. Government indirect cost rate is 21% of the contract administration costs.

#### Project Name: Open Pit Backfill to 6,945 ft - Reclamation Plan Date of Submittal: May 25, 2022 File Name: Cunningham Hill Pit Backfill stf.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: 20210801_SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada

eneric Material Hauling - Cost Sum	mary				
		Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact		\$30,791,582	\$59,353,200	N/A	\$90,144,782
Cover Placement Cost		\$741,560	\$1,429,416	N/A	\$2,170,976
Topsoil Placement Cost		\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	\$0	N/A	\$0
	Subtotal Earthworks	\$31,533,142	\$60,782,616	\$0	\$92,315,758
Revegetation Cost		\$1,924	\$687	\$5,458	\$8,069
	TOTALS	\$31,535,066	\$60,783,303	\$5,458	\$92,323,827

#### Generic Material Hauling - User Input

Facility Description				Physical Hauled Material			Crushing & Screening			Cover			Growth Media					
Description (required)	ID Code	Туре	Final Surface Area acres	Average Ripping Distance ft	Material Volume Required _{Cy}	Distance from Borrow Source (1) ft	Slope to Borrow Source % grade	Crush Material	Screen Material	Loss to Crushing/ Screening %	Distance to Placement Location (2) ft	Slope to Placement % grade	Cover Thickness in	Distance to Cover Borrow ft	Slope to Borrow % grade	Growth Media Thickness in	Distance to Growth Material Stockpile ft	Slope to Stockpile % grade
Cunningham Hill Pit		Quarry	13.88		2,100,000	227,040	-1.5						36	227,040				

Notes:

1. Input distance to crusher if material to be crushed

2. Input distance from crusher to placement if material to be crushed

3. 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)

G	eneric Material Hauling - User Input (cont.)															
			Hauling	Material			Cover			Growth Me	dia			Revegetation	1	
	Description (required)	Haul Material Type (select)	Material Hauling Fleet (select)	Each Fleet Size (from/to crusher) (user override)	Compact After Placement?	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch Type (select)	Fertilizer Type (select)	Scarify/ Rip? (select)	Scarifying/ Ripping Fleet (select)
	1 Cunningham Hill Pit	LS - broken	Small Truck	17	No	Alluvium	Small Truck	17				Mix 4	None	None	Yes	Small Dozer

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

Gen	eric Material Hauling - Load, Haul, Place and	d Grade											
					Material Hau	lage					Crush and/or	Compact	
	Description (required)	Material Volume to Crusher _{Cy}	Final Material Volume cy	Material Haulage Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Hauling Labor Cost \$	Hauling Equipment Cost \$	Total Crush/ Screen Cost \$	Compact Labor Cost \$	Compact Equipment Cost \$	Total Load/Haul/ Place Cost \$
1	Cunningham Hill Pit	2,100,000	2,100,000	725/966G/D7R	85	17	24,706	\$30,791,582	\$59,353,200	\$0	\$0	\$0	\$90,144,782
		2,100,000	2,100,000				24,706	\$30,791,582	\$59,353,200	\$0	\$0	\$0	\$90,144,782

Notes: Final Material Volume includes allowance for additional material hauled to crushing/screening plant based on Loss to Crushing/Screening input above.

Gene	eric Material Hauling - Cover and Growth M	edia Costs															
	Cover Placement Growth Media Placement																
	Description (required)	Cover Volume	Cover Placement Fleet	Cover Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Cover Placement Cost \$	Growth Media Volume cy	Growth Media Placement Fleet	Growth Media Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	Cunningham Hill Pit	67,179	725/966G/D7R	113	17	595	\$741,560	\$1,429,416	\$2,170,976	0					\$0	\$0	\$0
		67,179	l			595	\$741,560	\$1,429,416	\$2,170,976						\$0	\$0	\$0

Gene	eric Material Hauling - Scarifying/Revegetati	on Costs									
	Description (required)	Total Surface Area acres	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Cost \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Cost \$	Labor Cost \$	Equipment Cost \$	Material Cost \$	Total Revegetation Cost \$
1	Cunningham Hill Pit	13.88	D7R				\$0	\$1,924	\$687	\$5,458	\$8,069
		13.88			\$0	\$0	\$0	\$1,924	\$687	\$5,458	\$8,069

#### Closure Cost Estimate Cost Summary Project Name: Open Pit Backfill 6,945 ft Project Date: May 25, 2022 Model Version: Version 1.4.1 File Name: Cunningham Hill Pit Partial Backfill 6945 stf.xlsm

A. Earthwork/Recontouring	Labor (1)	Equipment ⁽²⁾	Materials	Total
Exploration	\$0	\$0	\$0	
Exploration Roads & Drill Pads	\$0	\$0	\$0	
Roads	\$0	\$0	\$0	
Well Abandonment Pits	\$0 \$0	\$0 \$0	\$0 N/A	
Quarries & Borrow Areas	\$0	\$0 \$0	\$0	
Underground Openings	\$0	\$0 \$0	\$0 \$0	
Process Ponds	\$0	\$0	\$0	
Heaps	\$0	\$0	\$0	
Waste Rock Dumps	\$0	\$0	\$0	
Landfills	\$0	\$0	\$0	
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas	\$0	\$0	\$0	
Yards, Etc.	\$0	\$0	\$0	
Drainage & Sediment Control	\$0	\$0 \$41,563,576	\$0	¢c2 400 4
Generic Material Hauling Other User Costs (from Other User sheet)	\$21,562,582 \$0	\$41,563,576 \$0	\$0 \$56,800,000	\$63,126,1 \$56,800,0
Other**	ψŪ	φυ	\$30,800,000	450,000,C
Subtotal	\$21,562,582	\$41,563,576	\$56,800,000	\$119,926,1
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	
Mob/Demob ir included in Other Oser sheet	\$0	\$U	\$0	
Subtotal "A"	\$21,562,582	\$41,563,576	\$56,800,000	\$119,926,1
R Payagetation/Stabilization	Labor ⁽¹⁾	Equipment (2)	Matorialo	Total
B. Revegetation/Stabilization	Labor (*) \$0	Equipment ⁽²⁾	Materials ^{\$0}	Total
Exploration Roads & Drill Pads	\$0	\$0 \$0	\$0	
Roads	\$0	\$0 \$0	\$0	
Well Abandonment	ψũ	¢ö	ŶŬ	
Pits	\$0	\$0	\$0	
Quarries & Borrow Areas	\$0	\$0	\$0	
Underground Openings				
Process Ponds	\$0	\$0	\$0	
Heaps	\$0	\$0	\$0	
Waste Rock Dumps	\$0	\$0	\$0	
Landfills	\$0	\$0	\$0	
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas	\$0	\$0	\$0	
Yards, Etc. Drainage & Sediment Control	\$0 \$0	\$0 \$0	\$0 \$0	
Generic Material Hauling	\$1,924	\$0 \$687	\$5,458	\$8,0
Other User Costs (from Other User sheet)	\$0	\$007	\$0	φ0,0
Other**	φυ	ψŪ	φΰ	
Subtotal "B"	\$1,924	\$687	\$5,458	\$8,0
				\$8,00
C. Detoxification/Water Treatment/Disposal of Wastes**	\$1,924 Labor ⁽¹⁾	\$687 Equipment ⁽²⁾	\$5,458 Materials	
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge				\$8,0 Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps				· ,
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill)				• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps				• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings				• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal				• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site				• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	· ·
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials N/A	· ·
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials N/A	• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials N/A	• •
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials N/A	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C"	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials N/A	\$8,0 Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hzardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials N/A \$0 \$0 \$0 Materials	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas	Labor ⁽¹⁾	Equipment ⁽²⁾ So So So Equipment ⁽²⁾ So So So So So So So S	Materials N/A \$0 \$0 \$0 Materials \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition	Labor ⁽¹⁾	Equipment ⁽²⁾ 50 50 Equipment ⁽²⁾ 50 50 50 50 50 50 50 5	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	Labor ⁽¹⁾	Equipment ⁽²⁾ \$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials N/A \$0 \$0 \$0 Materials \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	Labor ⁽¹⁾	Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials N/A \$0 \$0 \$0 Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Total
C. Detoxification/Water Treatment/Disposal of Wastes**  Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Fence Installation	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes**  Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other** Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Culvert Removal	Labor ⁽¹⁾	Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials N/A \$0 \$0 \$0 Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Total
C. Detoxification/Water Treatment/Disposal of Wastes**  Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation	Labor ⁽¹⁾	Equipment ⁽²⁾ 50 50 Equipment ⁽²⁾ 50 50 50 50 50 50 50 5	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal	Labor ⁽¹⁾	Equipment ⁽²⁾ 50 50 Equipment ⁽²⁾ 50 50 50 50 50 50 50 5	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Powerline P	Labor ⁽¹⁾	Equipment ⁽²⁾ 50 50 Equipment ⁽²⁾ 50 50 50 50 50 50 50 5	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal Powerline Removal	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions	Labor ⁽¹⁾	Equipment ⁽²⁾ 50 50 Equipment ⁽²⁾ 50 50 50 50 50 50 50 5	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock Ining, gabions Other Viser Sheet) Other**	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Sheet) Other Misc. Costs Other User Costs (from Other User sheet)	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other Misc. Costs Other Viser Sheet) Other** Subtotal "D"	Labor ⁽¹⁾	Equipment ⁽²⁾ So So So So So So So S	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Rep-rap, rock lining, gabions Other User Costs Other ** Subtotal "D"	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total
C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance	Labor ⁽¹⁾	Equipment ⁽²⁾ Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Materials           N/A           N/A           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	Total

# **Closure Cost Estimate Cost Summary** Project Name: Open Pit Backfill 6,945 ft Project Date: May 25, 2022 Model Version: Version 1.4.1

## File Name: Cunningham Hill Pit Partial Backfill 6945 stf.xlsm

	This T is T al tial Baok			
F. Construction Management & Support	Labor	Equipment ⁽²⁾	Materials	Total
Construction Management	\$5,225,880	\$941,280	N/A	\$6,167,160
Construction Support	\$0	\$80,364	\$0	\$80,364
Road Maintenance	\$5,621,486	\$7,026,802	\$0	\$12,648,288
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "F"	\$10,847,366	\$8,048,446	\$0	\$18,895,812
Subtotal Operational & Maintenance Costs	Labor ⁽¹⁾	Equipment (2)	Materials (3)	Total
Subtotal A through F	\$32,411,872	\$49,612,709	\$56,805,458	\$138,830,039

** Other Operator supplied costs - additional documentation required.

#### **Closure Cost Estimate Cost Summary** Project Name: Open Pit Backfill 6,945 ft Project Date: May 25, 2022 Model Version: Version 1.4.1 File Name: Cunningham Hill Pit Partial Backfill 6945 stf.xlsm

Indirect Costs		Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)			\$5,553,202
2. Contingency (8)			\$5,553,202
3. Insurance (9)	\$486,178		\$486,178
4. Performance Bond (10)			
5. Contractor Profit (11)			\$13,883,004
6. Contract Administration (12)			\$8,329,802
7. Government Indirect Cost (13)			
Subtotal Add-On Costs			\$33,805,388
Total Indirect Costs as % of Direct Cost			24%
GRAND TOTAL			\$172,635,427

		Cost Rang	ges for Indirect Co	st Percentages	\$
	<=	<=	<=	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	\$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	\$25,000,000		\$25,000,000	
Variable Rate	10%	8%		6%	
Government Indirect Cost (13)	21%	of contract administ	ration		

#### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading, overhead

The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the submitted
 Miscellaneous items should be itemized on accompanying worksheets.

4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper

5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced, 6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,

7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To

8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.

10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is

For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
 To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

13. Government indirect cost rate is 21% of the contract administration costs.

#### Project Name: Open Pit Backfill 6,945 ft - Reclamation Plan Date of Submittal: May 25, 2022 File Name: Cunningham Hill Pit Partial Backfill 6945 stf.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: 20210801_SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada

Generic Material Hauling - Cost Summary					
		Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact		\$20,821,022	\$40,134,160	N/A	\$60,955,182
Cover Placement Cost		\$741,560	\$1,429,416	N/A	\$2,170,976
Topsoil Placement Cost		\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	\$0	N/A	\$0
Sut	ototal Earthworks	\$21,562,582	\$41,563,576	\$0	\$63,126,158
Revegetation Cost		\$1,924	\$687	\$5,458	\$8,069
	TOTALS	\$21,564,506	\$41,564,263	\$5,458	\$63,134,227

#### Generic Material Hauling - User Input

Facility Description			Physical Hauled Material Crushing & Screening Cover							Growth Media								
Description (required)	ID Code	Туре	Final Surface Area acres	Average Ripping Distance ft	Material Volume Required _{Cy}	Distance from Borrow Source (1) ft	Slope to Borrow Source % grade	Crush Material	Screen Material	Loss to Crushing/ Screening %	Distance to Placement Location (2) ft	Slope to Placement % grade	Cover Thickness in	Distance to Cover Borrow ft	Slope to Borrow % grade	Growth Media Thickness in	Distance to Growth Material Stockpile ft	Slope to Stockpile % grade
Cunningham Hill Pit		Quarry	13.88		1,420,000	227,040	-1.5						36	227,040				

Notes:

1. Input distance to crusher if material to be crushed

2. Input distance from crusher to placement if material to be crushed

3. 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)

C	Generic Material Hauling - User Input (cont.)															
			Hauling	Material			Cover			Growth Me	dia			Revegetation	ı	
	Description (required)	Haul Material Type (select)	Material Hauling Fleet (select)	Each Fleet Size (from/to crusher) (user override)	Compact After Placement?	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch Type (select)	Fertilizer Type (select)	Scarify/ Rip? (select)	Scarifying/ Ripping Fleet (select)
	1 Cunningham Hill Pit	LS - broken	Small Truck	17	No	Alluvium	Small Truck	17				Mix 4	None	None	Yes	Small Dozer

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

Gen	eric Material Hauling - Load, Haul, Place and	d Grade											
					Material Hau	lage					Crush and/or	Compact	
	Description (required)	Material Volume to Crusher _{Cy}	Final Material Volume cy	Material Haulage Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Hauling Labor Cost \$	Hauling Equipment Cost \$	Total Crush/ Screen Cost \$	Compact Labor Cost \$	Compact Equipment Cost \$	Total Load/Haul/ Place Cost \$
1	Cunningham Hill Pit	1,420,000	1,420,000	725/966G/D7R	85	17	16,706		\$40,134,160		\$0		\$60,955,182
		1,420,000	1,420,000				16,706	\$20,821,022	\$40,134,160	\$0	\$0	\$0	\$60,955,182

Notes: Final Material Volume includes allowance for additional material hauled to crushing/screening plant based on Loss to Crushing/Screening input above.

Gene	Generic Material Hauling - Cover and Growth Media Costs																
Cover Placement							Growth Media Placement										
	Description (required)	Cover Volume cy	Cover Placement Fleet	Cover Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Cover Placement Cost \$	Growth Media Volume cy		Growth Media Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	Cunningham Hill Pit	67,179	725/966G/D7R	113	17	595	\$741,560	\$1,429,416	\$2,170,976	0					\$0	\$0	\$0
		67,179				595	\$741,560	\$1,429,416	\$2,170,976						\$0	\$0	\$0

Generic Material Hauling - Scarifying/Revegetation Costs											
	-	-	-	1	-			-	-		-
	Description (required)	Area acres	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Cost \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Cost \$	Revegetation Labor Cost \$	Equipment Cost \$	Material Cost \$	Total Revegetation Cost \$
1	Cunningham Hill Pit	13.88	D7R				\$0	\$1,924	\$687	\$5,458	\$8,069
		13.88			\$0	\$0	\$0	\$1,924	\$687	\$5,458	\$8.069

## Closure Cost Estimate Cost Summary Project Name: Open Pit Backfill 6,990 ft Enter Submittal Date Model Version: Version 1.4.1

File Name: Cunningham Hill Pit Backfill 6990 stf.xlsm

A. Earthwork/Recontouring	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads	\$0	\$0	\$0	\$0
Well Abandonment	\$0	\$0	\$0	\$0
Pits	\$0	\$0	N/A	\$0
Quarries & Borrow Areas Underground Openings	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Process Ponds	\$0	\$0	\$0	\$0
Heaps	\$0	\$0	\$0 \$0	\$0
Waste Rock Dumps	\$0	\$0	\$0	\$0
Landfills	\$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$0	\$0	\$0
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling Other User Costs (from Other User sheet)	\$29,035,517	\$55,968,247 \$0	\$0 \$162,000,000	\$85,003,764 \$162,000,000
Other**	\$0	<b>Φ</b> U	\$162,000,000	\$162,000,000
Subtotal	\$29,035,517	\$55,968,247	\$162,000,000	\$247,003,764
	,,.	,		, ,, .
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	\$(
Mob/Demob				\$(
Subtotal "A"	\$29,035,517	\$55,968,247	\$162,000,000	\$247,003,764
B. Revegetation/Stabilization	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Exploration	\$0	so	\$0	\$(
Exploration Roads & Drill Pads	\$0	\$0	\$0 \$0	\$(
Roads	\$0	\$0	\$0	\$
Well Abandonment				N//
Pits	\$0	\$0	\$0	\$
Quarries & Borrow Areas	\$0	\$0	\$0	\$
Underground Openings				N//
Process Ponds	\$0	\$0	\$0	\$1
Heaps	\$0	\$0	\$0	\$
Waste Rock Dumps	\$0	\$0	\$0	\$
Landfills Tailings	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Foundation & Buildings Areas	\$0	\$0 \$0	\$0 \$0	\$
Yards, Etc.	\$0	\$0	\$0	\$\ \$(
Drainage & Sediment Control	\$0	\$0	\$0 \$0	\$(
Generic Material Hauling	\$2,287	\$817	\$6,489	\$9,593
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$(
Other**				\$0
Subtotal "B"	\$2,287	\$817	\$6,489	\$9,593
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Process Ponds/Sludge	Labor	Equipment		\$0
Heaps				\$0
Dumps (Waste & Landfill)				\$
Tailings				\$
Surplus Water Disposal				\$
Monitoring				\$
Miscellaneous Solid Waste - On Site	\$0			2
Solid Waste - Off Site	<b></b> ФО	¢0.	NI/A	
Hazardous Materials		\$0	N/A	\$
		\$0	N/A	\$
	\$0			\$ \$ \$
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$ \$ \$ \$ \$
	\$0 \$0			\$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)		\$0	\$0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C"	\$0 \$0	\$0 \$0 \$0	\$0 \$0 <b>\$0</b>	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C"	\$0 \$0 Labor ⁽¹⁾	\$0 \$0 \$0 Equipment ⁽²⁾	\$0 \$0 \$0 Materials	\$ \$ \$ \$ \$ \$ <b>Total</b>
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	\$0 \$0	\$0 \$0 \$0	\$0 \$0 <b>\$0</b>	\$ \$ \$ \$ \$ Total \$
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas	\$0 \$0 Labor ⁽¹⁾ \$0	\$0 \$0 Equipment ⁽²⁾ \$0	\$0 \$0 <b>\$0</b> Materials \$0	\$ \$ \$ \$ \$ <b>Total</b> \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"    D. Structure, Equipment and Facility Removal, and Misc.          Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal	\$0 \$0 Labor ⁽¹⁾ \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0	\$0 \$0 \$0 Materials \$0 \$0	\$ \$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Restallation Culvert Removal	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0	\$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Transformer Removal	\$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A	\$ \$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions	\$0 \$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A N/A \$0	\$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Pipe Removal         Piperemoval         Rip-rap, rock lining, gabions         Other linic. Costs	\$0 <b>Labor</b> ⁽¹⁾ <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Removal         Pipe Removal         Pipe Removal         Powerline Removal         Transformer Removal         Rip-rap, rock lining, gabions         Other Mise. Costs         Other User Costs (from Other User sheet)	\$0 \$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A N/A \$0	\$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Pipe Removal         Piperemoval         Rip-rap, rock lining, gabions         Other Misc. Costs	\$0 <b>Labor</b> ⁽¹⁾ <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$ \$ <b>Total</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Pipe Removal         Rip-rap, rock lining, gabions         Other User Costs         Other User Costs (from Other User sheet)         Other **	\$0 \$0 \$0 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ Total \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other "         Subtotal "D"	\$0 <b>Labor</b> ⁽¹⁾ <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 N/A N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Pipe Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other **         Subtotal "D"	\$0 <b>Labor</b> ⁽¹⁾ <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C" <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Removal         Pipe Removal         Powerline Removal         Rip-rap, rock lining, gabions         Other**         Other**         Subtotal "D"	\$0 <b>Labor</b> ⁽¹⁾ <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0	\$( \$( \$( \$( \$( \$( \$( \$( \$( \$(
Hydrocarbon Contaminated Soils         Other User Costs (from Other User sheet)         Other**         Subtotal "C"             D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Pipe Removal         Piper Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other **         Subtotal "D"	\$0 <b>Labor</b> ⁽¹⁾ <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$ \$ \$ \$ Total \$ \$ \$ \$ \$ \$ \$ \$ \$

# Closure Cost Estimate Cost Summary

## Project Name: Open Pit Backfill 6,990 ft

Enter Submittal Date

Model Version: Version 1.4.1 File Name: Cunningham Hill Pit Backfill 6990 stf.xlsm

File Name: Cunningnam Hill Pit Backfill 6990 str.xism								
F. Construction Management & Support	Labor	Equipment (2)	Materials	Total				
Construction Management	\$5,225,880	\$941,280	N/A	\$6,167,160				
Construction Support	\$0	\$80,364	\$0	\$80,364				
Road Maintenance	\$5,621,486	\$7,026,802	\$0	\$12,648,288				
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0				
Other**				\$0				
Subtotal "F"	\$10,847,366	\$8,048,446	\$0	\$18,895,812				
Subtotal Operational & Maintenance Costs	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials ⁽³⁾	Total				
Subtotal A through F	\$39,885,170	\$64,017,510	\$162,006,489	\$265,909,169				

** Other Operator supplied costs - additional documentation required.

### **Closure Cost Estimate Cost Summary** Project Name: Open Pit Backfill 6,990 ft

**Enter Submittal Date** 

Model Version: Version 1.4.1

File Name: Cunningham Hill Pit Backfill 6990 stf.xlsm

Indirect Costs				Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)					\$10,636,36
2. Contingency (8)					\$10,636,36
3. Insurance (9)		\$598,278			\$598,27
4. Performance Bond (10)					
5. Contractor Profit (11)					\$26,590,91
6. Contract Administration (12)					\$15,954,55
7. Government Indirect Cost (13)					
Subtotal Add-On Costs					\$64,416,479
Total Indirect Costs as % of Direct Cost					249
GRAND TOTAL					\$330,325,648
Administrative Cost Rates (%)					
		Cost Rang	es for Indirect Co	ost Percentages	
	<=	<=	<=	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	\$25,000,000		\$25,000,000	Small Pla
Variable Rate	8%	6%		4%	0

Variable Rate	e 8%	6%		4%	0%
	<=	<=	<=	>	
2. Contingency (8)	\$500,000	\$5,000,000	\$50,000,000	\$50,000,000	Small Plan
Variable Rate	e 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	\$25,000,000		\$25,000,000	
Variable Rate	e 10%	8%		6%	
Government Indirect Cost (13)	21%	of contract administ	ration		

#### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading, overhead

The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the submitted
 Miscellaneous items should be itemized on accompanying worksheets.

4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper 5

Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced, Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid, 6.

7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To

8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.

10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is

For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
 To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

13. Government indirect cost rate is 21% of the contract administration costs.

Attachment 6.

Revised CCP – applicable DP-55 permit conditions DP-55 renewed 11/20/2020 Section C106 Closure

## **Summary of Renewed DP-55 Closure Requirements**

## C106 Closure

A. The permittee shall implement the approved closure plan for each mine unit once it is no longer required as a component of the groundwater abatement systems.

B. The permittee shall perform long-term monitoring until NMED determines that long-term monitoring is no longer required. The financial assurance described in C107 shall provide for a minimum of 100 years of long-term monitoring.

C. Upon NMED approval that long-term monitoring is complete, the permittee shall submit a schedule for abandonment of all appropriate monitoring wells. All monitoring wells shall be abandoned pursuant to NMED Monitoring Well Construction and Abandonment Guidelines and according to the regulations issued by the New Mexico Office of the State Engineer in 19.27.7 NMAC, unless an alternative completion is approved by NMED and the New Mexico Office of the State Engineer.

Attachment 7.

**Draft Financial Assurance Cost Estimates** 

# Cunningham Hill Mine Reclamation Project New Mexico Environmental Department AP-27 Reclamation Cost Estimate May-22

	Direct Costs			
Description	Labor	Equipment	Materials	Total
Earthwork/Recontouring - Well Abandonment	6,005	6,579	1,614	14,198
Water Treatment	421,893	-	251,298	673,191
Monitoring	266,477	35,530	90,561	392,568
Direct Costs Total	\$ 694,375	\$ 42,109	\$ 343,473	\$ 1,079,957

	Indirect Costs	
	Description	Total
Engineering, Design and Construction		64,797
Contingency		86,397
Insurance		10,416
Performance Bond		32,399
Contractor Profit		107,996
Contract Administration		86,397
	Indirect Costs Total	\$ 388,402

Grand Total \$ 1,468,359

Closure Cost Estimate Property Information

Enter Data Below in Green and Blue Spaces

# STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019) Approved for use in Nevada, August 1, 2012

COST DATA FILE INFORMATIO	
File Name:	AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm
Cost Data File:	SRCE_Cost_Data_File_1_12_Std_2021.xlsm
Cost Data Date:	August 1, 2021
Cost Data Basis:	User Data Cost Units: Imperial
Author/Source:	Nevada Division of Environmental Protection (NDEP) & NV BLM
PROJECT INFORMATION	
Property/Mine Name:	Cunningham Hill Mine Reclamation Proje Property Code:
Project Name:	CHMRP AP-27 Reclamation Cost Estimate
Date of Submittal:	May 2022 Average Altitude: 7100 ft.
Select One:	□ Notice or Sm Exploration Plan □ Lg Exploration Plan □ Mine Operation
Select One:	Private Land Public or Public/Private
Cost Estimate Type:	Surety
Cost Basis Category:	Southern Nevada
	Clark, Esmeralda, Lincoln and Nye Counties
Cost Basis Description:	

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## t Name: CHMRP AP-27 Reclamation Cost Estimate Project Date: May 2022 _27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Reclamation Plan

#### **Table of Contents**

**Property Information Cost Summary** Exploration **Exploration Roads & Pads** Waste Rock Dumps Heap Leach Pads Tailings Roads Pits **Quarries & Borrow Pits Underground Openings** Material Hauling Foundations and Buildings Other Demo & Equipment Removal Sediment & Drainage Control **Process Ponds** Landfills Yards, Etc. Waste Disposal Well Abandonment Misc. Costs Monitoring **Construction Management** Solution Management Other User **Reclamation Quantities** Labor Costs **Equipment Costs Material Costs** Misc. Unit Costs Fleets (Crews) Productivity User Tools Seed Mixture Description User Sheet 1 User Sheet 2 User Sheet 3 User Sheet 4 User Sheet 5 User Sheet 6 User Sheet 7 User Sheet 8 User Sheet 9 User Sheet 10 User Sheet 11 User Sheet 12 User Sheet 13 User Sheet 14 User Sheet 15 User Sheet 16 User Sheet 17 User Sheet 18 User Sheet 19 User Sheet 20

#### Closure Cost Estimate Cost Summary Project Name: CHMRP AP-27 Reclamation Cost Estimate Project Date: May 2022 Model Version: Version 1.4.1 File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xIsm

	(1)	- (2)	Matariala	Tatal
A. Earthwork/Recontouring Exploration	Labor ⁽¹⁾	Equipment (2)	Materials \$0	Total \$0
Exploration Exploration Roads & Drill Pads	\$0 \$0	\$0 \$0	\$0	
Roads	\$0	\$0	\$0	
Well Abandonment Pits	\$6,005	\$6,579	\$1,614 N/A	\$14,198 \$0
Quarries & Borrow Areas	\$0 \$0	\$0 \$0	\$0	
Underground Openings	\$0	\$0	\$0	\$0
Process Ponds	\$0	\$0	\$0	
Heaps Waste Rock Dumps	\$0 \$0	\$0 \$0	\$0 \$0	
Landfills	\$0	\$0	\$0	
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas Yards, Etc.	\$0 \$0	\$0 \$0	\$0 \$0	
Drainage & Sediment Control	\$0	\$0	\$0	
Generic Material Hauling	\$0	\$0	\$0	
Other User Costs (from Other User sheet) Other**	\$0	\$0	\$0	\$0 \$0
Subtotal	\$6,005	\$6,579	\$1,614	
Mob/Demob if included in Other User sheet Mob/Demob	\$0	\$0	\$0	\$0 \$0
Subtotal "A"	\$6,005	\$6,579	\$1,614	\$14,198
	\$0,005	<i>40,373</i>	\$1,014	\$14,150
B. Revegetation/Stabilization	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Exploration	\$0	so	\$0	
Exploration Roads & Drill Pads	\$0	\$0	\$0	
Roads	\$0	\$0	\$0	
Well Abandonment Pits	\$0	\$0	\$0	N/A \$0
Quarries & Borrow Areas	\$0	\$0 \$0	\$0	
Underground Openings				N/A
Process Ponds	\$0	\$0	\$0	
Heaps Waste Rock Dumps	\$0	\$0 \$0	\$0 \$0	
Waste Rock Dumps Landfills	\$0 \$0	\$0	\$0	
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas	\$0	\$0	\$0	
Yards, Etc.	\$0	\$0	\$0	
Drainage & Sediment Control	\$0 \$0	\$0	\$0 \$0	\$0 \$0
Generic Material Hauling Other User Costs (from Other User sheet)	\$0	\$0 \$0	\$0	
Other**	ψū	ţ,	ψũ	\$0
Subtotal "B"	\$0	\$0	\$0	\$0
				1
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Process Ponds/Sludge				\$0
Heaps				\$0
Dumps (Waste & Landfill)				\$0
Dumps (Waste & Landfill) Tailings				\$0 \$0
Dumps (Waste & Landfill)				\$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous				\$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfil) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site	\$0	\$0	N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site	\$0	\$0	N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site	\$0	\$0	N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet)				\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*	\$0 \$421,893	\$0 \$0	\$0 \$251,298	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet)	\$0	\$0	\$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other* Subtotal "C"	\$0 \$421,893 <b>\$421,893</b>	\$0 \$0	\$0 \$251,298 <b>\$251,298</b>	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$0 <b>\$673,191</b>
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	\$0 \$421,893 <b>\$421,893</b> Labor ⁽¹⁾	\$0 \$0 \$0 Equipment ⁽²⁾	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b>	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$673,191 <b>Total</b>
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other* Subtotal "C"	\$0 \$421,893 <b>\$421,893</b>	\$0 \$0	\$0 \$251,298 <b>\$251,298</b>	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>\$673,191</b> <b>Total</b>
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	\$0 \$421,893 <b>\$421,893</b> Labor ⁽¹⁾ \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0	\$0 \$251,298 \$251,298 Materials \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$673,191 <b>Total</b> \$0 \$673,00 \$0 \$673,00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	\$0 \$421,893 <b>\$421,893</b> <b>\$421,893</b> <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 \$251,298 Materials \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$673,191 <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Hazardous Materials Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Fence Installation	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$673,191 \$673,191 <b>Total</b> \$0 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$675,191 \$
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	\$0 \$421,893 <b>\$421,893</b> <b>\$421,893</b> <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 \$251,298 Materials \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> \$0 \$673,191 \$673,091 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Powerline Removal Powerline Removal	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$673,191 <b>Total</b> \$0 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscelaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Powerline Removal Powerline Removal	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> \$0 \$673,191 \$673,091 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet) Other*  Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Transformer Removal Rip-rap, rock lining, gabions	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 N/A N/A N/A S0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> \$0 \$673,191 \$673,191 \$0 \$673,191 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other Misce. Costs	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>\$251,298</b> <b>\$0</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Of Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet) Other*  Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Transformer Removal Rip-tap, rock lining, gabions	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 N/A N/A N/A S0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> \$0 \$673,191 \$673,191 \$673,191 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscelaneous Solid Waste - On Site Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Powerline Removal Powerline Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other User Costs (from Other User sheet)	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>\$251,298</b> <b>\$0</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> \$0 \$673,191 \$0 \$673,191 \$0 \$673,191 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other' Subtotal "D"	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$673,191 \$673,191 \$673,191 \$673,191 \$673,191 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Other User Costs (from Other Usersheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other Usersheet)         Other '*         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Pipe Removal         Pipe Removal         Pipe Removal         Rip-rap, tock lining, gabions         Other User Costs (from Other User sheet)         Other "         Subtotal "D"         E. Monitoring         Reclamation Monitoring and Maintenance	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 N/A N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other Temolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Reproval Powerline Removal Rip-rap, rock lining, gabions Other User Costs Other U	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 \$673,191 <b>Total</b> \$0 \$673,191 \$673,191 \$0 \$673,191 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet)	\$0 \$421,893 <b>\$421,893</b> <b>Labor</b> (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs Other	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 <b>Equipment</b> ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Talings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabins Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$421,893 \$421,893 Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet)	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 N/A N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$673,191 <b>Total</b> <b>Total</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Of Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other Misc. Costs Other '' Subtotal "D' E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other ''  F. Construction Management & Support Construction Management Construction Support	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Of Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User Sheät) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Powerline Removal Powerline Removal Powerline Removal Transformer Removal Powerline Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other*  F. Construction Management & Support Construction Management Construction Support Construction Management Construction Manage	\$0 \$421,893 \$421,893 Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>%251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Mazardous Materials Hazardous Materials Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demoval Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Support Road Maintenance Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Construction Support Road Maintenance Other User Costs (from Other User sheet) Construction Support Road Maintenance Other User Costs (from Other User sheet) Construction Support Construction Const	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User Sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Removal Removal Removal Removal Removal Cuter Misc. Costs Other Misc. Costs Other Misc. Costs Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Management & Support Construction Management & Support Construction Support Road Maintenance Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$30,800           \$30,800           \$330,800           \$330,800           \$330,800           \$330,800           \$330,800           \$30           \$0           \$0           \$0           \$0           \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other* <b>D. Structure, Equipment and Facility Removal, and Misc.</b> Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other* <b>Subtotal "D" E. Monitoring</b> Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" <b>F. Construction Management &amp; Support</b> Construction Support Road Maintenance Other User Costs (from Other User sheet)	\$0 \$421,893 \$421,893 Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>%251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$0           \$30,800           \$30,800           \$330,800           \$330,800           \$330,800           \$330,800           \$330,800           \$30           \$0           \$0           \$0           \$0           \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User Sheët) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culver Removal Fence Installation Culver Removal Powerline Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Culver Costs Other User Costs (from Other User Sheet) Other " Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Support Construction Management Construction Support Construction Management Construction Texture Construction Management Construction Man	\$0 \$421,893 \$421,893 Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User Sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Removal Removal Removal Removal Removal Cuter Misc. Costs Other Misc. Costs Other Misc. Costs Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Management & Support Construction Management & Support Construction Support Road Maintenance Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$421,893 \$421,893 Labor ⁽¹⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Equipment ⁽²⁾ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$251,298 <b>\$251,298</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

### **Closure Cost Estimate Cost Summary** Project Name: CHMRP AP-27 Reclamation Cost Estimate Project Date: May 2022 Model Version: Version 1.4.1 File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm

** Other Operator supplied costs - additional documentation required.

Indirect Costs				Include?	Total			
1. Engineering, Design and Construction (ED&C) Plan (7)								
2. Contingency (8)					\$86,39			
3. Insurance (9)		\$10,416			\$10,41			
4. Performance Bond (10)					\$32,39			
5. Contractor Profit (11)					\$107,99			
6. Contract Administration (12)					\$86,39			
7. Government Indirect Cost (13)					N/A			
Subtotal Add-On Costs								
Total Indirect Costs as % of Direct Cost					369			
GRAND TOTAL					\$1,468,35			
GRAND IOTAL					\$1,468,35			
					\$1,468,35			
		Cost Ran	ges for Indirect Co	st Percentages	\$1,468,355			
	<=	Cost Rang	ges for Indirect Co	st Percentages	\$1,468,35			
	<= \$1,000,000	<=	<=					
Administrative Cost Rates (%)		<= \$25,000,000	<=	>	\$1,468,35			
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	<= \$25,000,000	<=	> \$25,000,000	Small Pla			
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000 8%	<= \$25,000,000 6% <=	<= 	> \$25,000,000 4%	Small Pla			
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate	\$1,000,000 8%	<= \$25,000,000 6% <= \$5,000,000	<= <= <= \$50,000,000	> \$25,000,000 4% >	Small Pla 0 Small Pla			
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8)	\$1,000,000 8% <= \$500,000 10%	<= \$25,000,000 6% <= \$5,000,000	<= <= <= \$50,000,000	> \$ \$25,000,000 4% > \$50,000,000	Small Pla 0			
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate	\$1,000,000 8% <= \$500,000 10% 1.5%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs	<= <= <= \$50,000,000	> \$ \$25,000,000 4% > \$50,000,000	Small Pla 0 Small Pla			

\$25,000

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

6. Contract Administration (12)

Government Indirect Cost (13)

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES
Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll hading,
The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the
Miscellaneous items should be temized on accompanying worksheets.
Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper
Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isofding all hazardous materials used, produced,
Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,
Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needs to contract for the required work. To
A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the cohingency cost as a percentage of the
Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium mount if liability insurance is not jncluded in the itemized unit costs.
Federal construction contracts exceeding \$100,000 require both a performance and a payment bod (Miller Act, 40 USC 270et seq.). Each bond premium is
For Federal construction contracts, use 10% of estimated 0&M cost for the contractor's profit.
To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (0%M) cost. Calculate the contract administration cost as a
Government indirect cost rate is 21% of the contract administration cost.

\$1 000.00

Variable Rat

13. Government indirect cost rate is 21% of the contract admin

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5/27/2022

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$0	\$0	\$0	\$0
Erosion Maintenance	\$0	\$0	N/A	\$0
Reclamation Monitoring	\$60,976	\$702	N/A	\$61,678
Subtotal Reclamation Monitoring	\$60,976	\$702	\$0	\$61,678
Water Quality Monitoring	\$205,501	\$34,828	\$90,561	\$330,890
TOTAL MONITORING	\$266,477	\$35,530	\$90,561	\$392.568

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	0	100%	User Mix 2	0.0	\$241.00	\$138.59	\$49.50	
Labor Equipment Materials Cost/Acre							Subtotal	\$0 \$0 \$429 <b>\$0</b>
Notes:	: 1) Surface area is	NOT the same as	footprint disturba	ance area typical	ly used for permi	itting purposes.		
l								
	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	20%	\$0.00	0		\$0.00	\$0.00	\$0
Notes:								
Notes:								
Reclamation Monitoring								
Description	Hrs/Day	Days/Year	Number of Years	Rate \$/hr				
Field Work Field Geologist/Engineer		1		\$163.79	1		_	
Field Geologist/Engineer Range Scientist	8	1	12	\$163.79 \$143.79				\$0 \$13,804
Reporting								
Field Geologist/Engineer Range Scientist	8	3	12	\$163.79 \$143.79				\$47,172
Nariye ocientist				\$143.79			Subtotal	\$60,976
Travel			_	_				
	Hrs/Trip hr	Trips/Year	Years	Truck Cost \$/hr				/
Travel	2	1	12	\$29.26				\$702
							Subtotal	\$702
						Total Reclamat	tion Monitoring	\$61,678
Notes:								

#### Project Name: CHIMRP AP-27 Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada

#### Reclamation Monitoring & Maintenance - Cost Summary

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$0	\$0	\$0	
Erosion Maintenance	\$0	\$0	N/A	\$0
Reclamation Monitoring	\$60,976		N/A	\$61,678
Subtotal Reclamation Monitoring			\$0	\$61,678
Water Quality Monitoring	\$205,501			\$330,890
TOTAL MONITORING	\$266,477	\$35,530	\$90,561	\$392,568

#### Water and Rock Sample Analysis

Water and Rock Sample A	anarysis														
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	Lab Cost Ş	Material Cost \$	8	r Cost S	Cost \$	Comments
Pit Lake	4	4	12	1	1	1	8	\$257.10	\$6.45	\$49,363	\$1,238		\$47,535	\$107,905	
AP Wells	2	4	12	1	1	1	8	\$84.30	\$6.45	\$8,093	\$619	\$9,769	\$47,535	\$66,016	
LAC Profile 1	4	4	12	1	1	1	8	\$156.30	\$6.45	\$30,010	\$1,238	\$9,769	\$47,535	\$88,552	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
										\$87,466.00	\$3,095.00	\$29,306.88 \$142	2,606.08		
												Subtotal Sampling	Costs	\$262,474	

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

> Cost \$

> > \$5,521 **\$5,521**

# Ground & Surface Water Monitoring Pump Costs Years Description No. of units Years Pump (purchased) 10 Period (yrs): 10 2760.425068 Subtotal Field Work Subtotal Field Work Subtotal Field Work Subtotal Field Work

Notes: Replacement period = frequency of pump replacement

Reporting				
Description	Hrs/Event	Rate \$/hr	Cost \$	
Field Geologist/Engineer	8	\$163.79	\$62,895	
	s	ubtotal Reporting	\$62,895	
Notes:		-		

Project Name: CHMRP AP-27 Reclamation Cost Estimate - Reclamation Plan
Date of Submittal: May 2022
File Name: AP 27 SRCE Version 1 4 1 017 NV 2021 Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE Cost Data File 1 12 Std 2021.xlsm
Cost Estimate Type: Surety Cost Basis: Southern Nevada
oost Estimate Type: ourery oost Basis: Southern Nevada

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	Southern Nevada	Clark, Esmer	Ida, Lincoln and Nye Cou	nties	
Power Equipment Operators	>60 miles	\$0.00			
Truck Drivers	>70 miles	\$0.00			
Laborers	>50 miles	\$0.00			
INDIRECT COSTS					
Unemployment (%)	3.00%				
Retirement/SS/Medicare (%)	7.65%				
Workman's Compensation (%)	12.00%				
Other Indirects					
State Payroll Tax (13),(15),(17),(	1				
Total Other Indirects	0.00%				

EQUIPMENT TYPE (1) OR JOB DESCRIPTION	Labor Group	Base Rate	Zone Adjustment	Hourly Wage	Fringe	Retirement/ Medicare	Unemployment Insurance	Workman's Compensation	Other Indirect Costs	Total
		(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)
Equipment Operators (\$	\$/hr) (2)									
Bulldozers										
D6R	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
D6R w/ Winch					\$26.65					
D7R	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
D8R	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
D9R	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
D10R D11R	Group 8A Group 8A	\$50.85 \$50.85	\$0.00 \$0.00	\$50.85 \$50.85	\$26.65 \$26.65	\$1.53 \$1.53	\$3.89 \$3.89	\$6.10 \$6.10	\$0.00 \$0.00	\$89 \$89
Wheeled Dozers	Gloup 6A	¢30.03	\$0.00	\$30.03	φ20.03	\$1.55	φ3.09	\$0.10	<b>\$0.00</b>	ψυα
824G	1	1			\$26.65					_
834G					\$26.65					
844					\$26.65					
854G					\$26.65		P			
Motor Graders										
120H	Group 10	\$50.97	\$0.00	\$50.97	\$26.65	\$1.53	\$3.90	\$6.12	\$0.00	\$89
14G/H	Group 10	\$50.97	\$0.00	\$50.97	\$26.65	\$1.53	\$3.90	\$6.12	\$0.00	\$89
16G/H	Group 10	\$50.97	\$0.00	\$50.97	\$26.65	\$1.53	\$3.90	\$6.12	\$0.00	\$89
24M			<		\$26.65					
Track Excavators										
312C	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89
320C	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89
325C	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89
330C 345B	Group 12A Group 12A	\$51.14 \$51.14	\$0.00 \$0.00	\$51.14 \$51.14	\$26.65 \$26.65	\$1.53 \$1.53	\$3.91 \$3.91	\$6.14 \$6.14	\$0.00 \$0.00	\$89 \$89
365BL	Gloup 12A	φ <b>01.1</b> 4	φ <b>0.</b> 00	\$31.14	\$26.65	\$1.00	\$3.91	<b>Φ</b> 0.14	\$0.00	409
385BL	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89
Scrapers			· · · · ·						· · ·	
631G	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
637G	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
Wheeled Loaders										
924G	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
928G	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
950G	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
966G	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89
972G	Group 8A	\$50.85	\$0.00 \$0.00	\$50.85 \$50.85	\$26.65	\$1.53	\$3.89 \$3.89	\$6.10	\$0.00 \$0.00	\$89 \$89
980G 988G	Group 8A Group 10	\$50.85 \$50.97	\$0.00	\$50.85	\$26.65 \$26.65	\$1.53 \$1.53	\$3.89	\$6.10 \$6.12	\$0.00	\$89
990	Gloup IU	\$30.97	\$U.UU	\$50.97	\$26.65	\$1.00	\$3.90	<b>Φ</b> 0.12	\$0.00	
992G	Group 10	\$50.97	\$0.00	\$50.97	\$26.65	\$1.53	\$3.90	\$6.12	\$0.00	\$89
994D					\$26.65					
L2350					\$26.65					
Shovels										
PC2000					\$26.65					
PC3000					\$26.65					
PC4000					\$26.65					
PC5500 PC8000					\$26.65 \$26.65					
Hydraulic Hammers	1				\$20.05				<u> </u>	
H-120 (fits 325)	-									
H-120 (fits 325) H-160 (fits 345)										
H-160 (fits 345) H-180 (fits 365/385)	1									
Demolition Shears					_					
S340 (fits 322/325/330)										
S365 (fits 330/345)										
S390 (fits 365/385)	1									
Demolition Grapples										
G315 (fits 322/325)										
G320 (fits 325/330)	1									
G330 (fits 345/365)	1									

Project Name: CHMRP AP-27 Reclamation Cost Estimate - Reclamation Plan
Date of Submittal: May 2022
File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm
Cost Estimate Type: Surety Cost Basis: Southern Nevada

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	Southern Nevada	Clark, Esmer	eralda, Lincoln and Nye Counties	
Power Equipment Operators	>60 miles	\$0.00		
Truck Drivers	>70 miles	\$0.00		
Laborers	>50 miles	\$0.00		
INDIRECT COSTS				
Unemployment (%)	3.00%			
Retirement/SS/Medicare (%)	7.65%			
Workman's Compensation (%)	12.00%			
Other Indirects				
State Payroll Tax (13),(15),(17),(1				
Total Other Indirects	0.00%			

Other Equipment										
420D 4WD Backhoe	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89.3
428D 4WD Backhoe	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89.3
CS533E Vibratory Roller	Group 12A	\$51.14	\$0.00	\$51.14	\$26.65	\$1.53	\$3.91	\$6.14	\$0.00	\$89.3
CS633E Vibratory Roller	•				\$26.65					
CP533E Sheepsfoot Compactor					\$26.65					
CP633E Sheepsfoot Compactor					\$26.65					
Light Truck - 1.5 Ton					\$26.65					
Supervisor's Truck					\$26.65	<				
Flatbed Truck					\$26.65					
Air Compressor + tools	Group 1	\$47.79	\$0.00	\$47.79	\$26.65	\$1.43	\$3.66	\$5.73	\$0.00	\$85.2
Welding Equipment	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89.0
Heavy Duty Drill Rig	Group 1	\$47.79	\$0.00	\$47.79	\$26.65	\$1.43	\$3.66	\$5.73	\$0.00	\$85.2
Pump (plugging) Drill Rig	Group 1	\$47.79	\$0.00	\$47.79	\$26.65	\$1.43	\$3.66	\$5.73	\$0.00	\$85.2
Concrete Pump					\$26.65					
Gas Engine Vibrator	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89.0
Generator 5KW	•				\$26.65					
HDEP Welder (pipe or liner)					\$26.65					
5 Ton Crane	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89.0
20 Ton Crane	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89.0
50 Ton Crane	Group 8A	\$50.85	\$0.00	\$50.85	\$26.65	\$1.53	\$3.89	\$6.10	\$0.00	\$89.0
120 Ton Crane	Group or t	<b>\$00.00</b>	<b>\$0.00</b>	<b>\$00.00</b>		¢1.00	\$0.00	<b>\$0.10</b>	<b>\$0.00</b>	φ00.0
(1) Equipment Type: C	Catepillar model or equival	ent, LeTourneau			\$26.65					
(1) Equipment Type: C (2) Equipment Operator Source:	D-B NV20210012 44393	ient, LeTourneau			\$26.65					
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F		ent, LeTourneau			\$26.65					
(2) Equipment Operator Source:	D-B NV20210012 44393	ent, LeTourneau \$29,45	\$0.00	\$29.45	\$26.65	\$0.88	\$2.25	\$3.53	\$0.00	\$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F Truck Drivers (\$/hr) (4) 725	D-B NV20210012 44393		\$0.00 \$0.00	\$29.45 \$29.45	6	\$0.88 \$0.88	\$2.25 \$2.25	\$3.53	\$0.00 \$0.00	\$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F ruck Drivers (\$/hr) (4) 725 730	D-B NV20210012 44393	\$29.45			\$26.72					\$62.8
(1) Equipment Type: C (2) Equipment Operator Source: (3) Zono Basis: F ruck Drivers (\$/hr) (4) 725 730 735	D-B NV20210012 44393	\$29.45 \$29.45	\$0.00	\$29.45	\$26.72 \$26.72	\$0.88	\$2.25	\$3.53	\$0.00	
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F ruck Drivers (\$/hr) (4) 725 730 735 740	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45	\$0.00 \$0.00	\$29.45 \$29.45	\$26.72 \$26.72 \$26.72	\$0.88 \$0.88	\$2.25 \$2.25	\$3.53 \$3.53	\$0.00 \$0.00	\$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: ( (3) Zone Basis: F ruck Drivers (\$/hr) (4) 725 730 735 740 769D	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00	\$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: (3) Zono Basis: F ruck Drivers (\$/hr) (4) 725 730 735 740 769D 773E	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: E (3) Zone Basis: F ruck Drivers (\$/hr) (4)	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F ruck Drivers (\$/hr) (4) 725 730 735 740 769D 773E 777D 785C	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zono Basis: F ruck Drivers (\$/hr) (4) 725 730 730 735 740 769D 773E 777D 785C 793C	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F <b>ruck Drivers (\$/hr) (4)</b> 725 730 735 740 769D 773E 777D 777E 777D 785C 793C 797B	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F <b>ruck Drivers (\$/hr) (4)</b> 725 730 735 740 769D 773E 777D	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Operator Source: (2) Equipment Operator Source: (3) Zone Basis: F <b>iruck Drivers (\$/hr) (4)</b> 725 730 735 740 775 775 775 775 775 785C 797B 613E (5,000 gal) Water Wagon	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F ruck Drivers (\$/hr) (4) 725 730 735 736 736 737 736 737 737 738 737 738 738 738 737 739 738 738 739 738 739 738 739 739 738 739 738 739 739 738 739 739 739 739 739 739 739 739 739 739	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8 \$62.8 \$62.8
(1) Equipment Type: C (2) Equipment Operator Source: C (3) Zone Basis: F Truck Drivers (\$/hr) (4) 725 730 730 735 740 769D 773E 777D 785C 793C 793C 793C 793C 793C 613E (5,000 gal) Water Wagon	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$62.3 \$62.3 \$62.3 \$62.3 \$62.3 \$62.3 \$62.3 \$62.3
(1) Equipment Type: C (2) Equipment Operator Source: (3) Zone Basis: F <b>ruck Drivers (\$/hr) (4)</b> 725 730 735 740 7770 778 7770 778 785C 793C 7937 813E (5,000 gal) Water Wagon 521E (8,000 gal	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$62.3 \$62.3 \$62.3 \$62.3 \$62.3 \$62.3 \$62.3 \$62.3
(1) Equipment Type: C (2) Equipment Operator Source: (3) Zono Basis: F ruck Drivers (\$/hr) (4) 725 730 735 740 769D 7775 7770 785 7770 785 7978 7978 7976 7976 793C 793C 793C 793C 7978 613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon 621E (8,000 gal) Water Wagon 7770 Water Truck 785C Water Truck 785C Water Truck 785C Water Truck 795C Water Truck	D-B NV20210012 44393	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45 \$29.45	\$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72 \$26.72	\$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88 \$0.88	\$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25 \$2.25	\$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53 \$3.53	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$62.8 \$62.8 \$62.8 \$62.8 \$62.8 \$62.8

Project Name: CHMRP AP-27 Reclamation Cost Estimate - Reclamation Plan
Date of Submittal: May 2022
File Name: AP 27 SRCE Version 1 4 1 017 NV 2021 Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE Cost Data File 1 12 Std 2021.xlsm
Cost Estimate Type: Surety Cost Basis: Southern Nevada
oost Estimate Type: ourery oost Basis: Southern Nevada

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	Southern Nevada	Clark, Esmeralda	, Lincoln and Nye Counties		
Power Equipment Operators	>60 miles	\$0.00			
Truck Drivers	>70 miles	\$0.00			
Laborers	>50 miles	\$0.00			
INDIRECT COSTS					
Unemployment (%)	3.00%				
Retirement/SS/Medicare (%)	7.65%				
Workman's Compensation (%)	12.00%				 
Other Indirects					
State Payroll Tax (13),(15),(17),(	1				
Total Other Indirects	0.00%				

HOURLY LABOR RATE	TABLE									
Laborers (\$/hr) (6,7)										
General Laborer	Group 1	\$27.86	\$0.00	\$27.86	\$28.79	\$0.84	\$2.13	\$3.34	\$0.00	\$62.9
Skilled Laborer	Group 2	\$27.96	\$0.00	\$27.96	\$28.79	\$0.84	\$2.14	\$3.36	\$0.00	\$63.0
Driller's Helper	Group 2	\$27.96	\$0.00	\$27.96	\$28.79	\$0.84	\$2.14	\$3.36	\$0.00	\$63.0
Rodmen (reinforcing concrete)	Group 2	\$27.96	\$0.00	\$27.96	\$28.79	\$0.84	\$2.14	\$3.36	\$0.00	\$63.0
Cement finisher	Group 2	\$27.96	\$0.00	\$27.96	\$28.79	\$0.84	\$2.14	\$3.36	\$0.00	\$63.0
Carpenter		\$42.28	\$0.00	\$42.28	\$23.23	\$1.27	\$3.23	\$5.07	\$0.00	\$75.0
NOTES:								•		
(6) Laborer Source:	D-B LABO0872-015 44378									
(7) Carpenter Source:	D-B CARP1977-003 44378									
(8) Zone Basis:	From Las Vegas City Hall									
Project Management an	d Technical Lal	oor (\$/hr)	(9)							
Project Manager		\$91.69	(-)	\$91.69	\$28,79	\$2.75	\$7.01	\$11.00	\$0.00	\$141.2
Foreman		\$84.94		\$84.94	\$28.79	\$2.55	\$6.50	\$10.19	\$0.00	\$132.9
Field Geologist/Engineer		\$110.07		\$110.07	\$28,79	\$3.30	\$8.42	\$13.21	\$0.00	\$163.7
Field Tech/Sampler		\$77.46		\$77.46	\$28.79	\$2.32	\$5.93	\$9.29	\$0.00	\$123.7
Range Scientist		\$93.76		\$93.76	\$28.79	\$2.81	\$7.17	\$11.25	\$0.00	\$143.7
Senior Planning Engineer					\$28.79		*****	+ · · · = +		<b>.</b>
Project Engineer					\$28.79					
Mechanic/Fitter					\$28.79					
					\$28.79					
					\$28.79					
					\$28.79					
					\$28.79					
					\$20.79					
NOTES:										
(9) Project Manager:	R.S.Means 2021 Q2 (01 31	1320 0200 Total I	ncl.O&P-10%) Adjus	ted for Elko, NV						
(9) Foreman Source:	R.S.Means 2021 Q2 (01 31	1320 0200 Total I	ncl.O&P-10%) Adjus	ted for Elko, NV						
(9) Techical Labor Source:	Wood plc 2021 Adjusted for	Zone, Tax and Ins	L.	,						
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)										
F										

# Closure Cost Estimate Equipment Costs

EQUIPMENT TYPE (1)	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
Bulldozers	1	1		
D6R	\$10,185.00	\$63.66	\$26.51	\$90.1
D6R w/ Winch D7R	\$11,575.00	\$72.34	\$13.31 \$29.18	\$13.3 \$101.5
D/R D8R	\$11,575.00 \$21,150.00	\$72.34 \$132.19	\$29.18 \$39.43	\$101.8
D9R	\$28,400.00	\$177.50	\$55.94	\$233.4
D10R	\$39,360.00	\$246.00	\$72.04	\$318.0
D11R	\$52,785.00	\$329.91	\$104.83	\$434.7
Wheeled Dozers	I.	1		
824G			\$22.90 \$26.84	\$22.9
834G 844			\$20.84 \$31.95	\$26.8 \$31.9
854G			\$40.47	\$40.4
Motor Graders				
120H	\$9,400.00	\$58.75	\$30.23	\$88.9
14G/H	\$13,515.00	\$84.47	\$44.06	\$128.
16G/H 24M	\$24,250.00	\$151.56	\$55.24 \$33.02	\$206.1 \$33.0
Track Excavators			\$00.0L	<i>\\</i> 000.1
312C	\$4,650.00	\$29.06	\$12.64	\$41.3
320C	\$5,245.00	\$32.78	\$20.02	\$52.4
325C	\$7,500.00	\$46.88	\$24.93	\$71.
330C	\$10,575.00	\$66.09	\$30.06	\$96.
345B 365BL	\$14,565.00	\$91.03	\$37.28 \$28.12	\$128.3 \$28.3
385BL	\$22,950.00	\$143.44	\$57.83	\$201.2
Scrapers				
631G	\$24,285.00	\$151.78	\$63.34	\$215.1
637G	\$28,520.00	\$178.25	\$89.52	\$267.7
924G	et 000	#00 ( ···	600 401	\$46.6
924G 928G	\$4,230.00 \$4,580.00	\$26.44 \$28.63	\$20.19 \$22.08	\$46.0
950G	\$7,440.00	\$46.50	\$28.45	\$74.9
966G	\$10,670.00	\$66.69	\$36.75	\$103.4
972G	\$13,515.00	\$84.47	\$41.51	\$125.
980G	\$13,515.00	\$84.47	\$46.62	\$131.
988G 990	\$22,525.00	\$140.78	\$65.60 \$36.21	\$206.3 \$36.3
990 992G	\$54,125.00	\$338.28	\$122.78	\$30.2
994D			\$76.68	\$76.6
L2350			\$140.58	\$140.5
Shovels				
PC2000 PC3000			\$78.81 \$106.50	\$78.8 \$106.5
PC4000			\$108.50	\$100.
PC5500			\$253.47	\$253.4
PC8000			\$317.37	\$317.3
Hydraulic Hammers				
H-120 (fits 325) H-160 (fits 345)	\$4,460.00 \$8,990.00	\$27.88 \$56.19	\$5.79 \$11.31	\$33.6 \$67.5
H-180 (fits 365/385)	\$12,385.00	\$77.41	\$13.40	\$90.8
Demolition Shears				
S340 (fits 222/325/330)				\$0.0
\$365 (fits 330/345)				\$0.0
S390 (fits 365/385)				\$0.0
G315 (fits 322/325)	1			\$0.0
G315 (its 322/325) G320 (fits 325/330)				\$0.0
G330 (fits 345/365)				\$0.0
Other Equipment				
420D 4WD Backhoe	\$2,595.00	\$16.22	\$15.37	\$31.
428D 4WD Backhoe	\$3,315.00	\$20.72	\$15.23	\$35.5
CS533E Vibratory Roller CS633E Vibratory Roller	\$8,250.00	\$51.56	\$7.99 \$10.12	\$59. \$10.
CS633E Vibratory Koller CP533E Sheepsfoot Compactor			\$10.12 \$7.99	\$10.1
CP633E Sheepstoot Compactor			\$10.12	\$10.1
Light Truck - 1.5 Ton	\$4,122.80	\$25.77	\$3.49	\$29.3
Supervisor's Truck	\$3,682.80	\$23.02	\$2.42	\$25.4
Flatbed Truck	\$4,122.80	\$25.77	\$11.62	\$37.3
Air Compressor + tools Welding Equipment	\$5,799.20 \$3.093.20	\$36.25	\$2.13 \$4.26	\$38.
Heavy Duty Drill Rig	\$3,093.20	\$19.33 \$210.38	\$4.26 \$25.56	\$235.
Pump (plugging) Drill Rig	\$33,660.00	\$210.38	\$21.30	\$231.0
Concrete Pump	\$8,800.00	\$55.00	\$21.30	\$76.3
Gas Engine Vibrator	\$564.08	\$3.53	\$2.13	\$5.0
Generator 5KW HDEP Welder (pipe or liner)	\$1,675.52 \$8,712.00	\$10.47 \$54.45	\$3.20 \$4.26	\$13.0
HDEP Welder (pipe or liner) 5 Ton Crane	\$8,712.00 \$7,933.20	\$54.45 \$49.58	\$4.26 \$6.39	\$58. \$55.9
20 Ton Crane	\$12,122.00	\$49.56	\$8.52	\$35.1
50 Ton Crane	\$12,122.00	\$75.76	\$10.01	\$85.
120 Ton Crane			\$11.08	\$11.0
Trucks		\$91.81	\$37.45	\$129.3
Trucks 725	\$14,690.00		\$38.52 \$52.19	\$130.3 \$144.0
Trucks 725 730	\$14,690.00	\$91.81		Q1444.
Trucks 725	\$14,690.00 \$14,690.00	\$91.81		\$145
Trucks           725           730           735	\$14,690.00		\$53.48 \$37.00	
Trucks           725           730           735           740           769D           773E	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00	\$91.81 \$91.81 \$144.06 \$183.13	\$53.48 \$37.00 \$50.10	\$181.0 \$233.2
Trucks           725           730           735           740           769D           773E           777D	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00	\$91.81 \$91.81 \$144.06	\$53.48 \$37.00 \$50.10 \$71.54	\$181. \$233. \$340.9
Trucks 725 730 735 740 768D 773E 777D 785C	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00	\$91.81 \$91.81 \$144.06 \$183.13	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65	\$181.0 \$233.1 \$340.9 \$51.0
Trucks           726           730           735           740           788D           777E           777D           788C           793C	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00	\$91.81 \$91.81 \$144.06 \$183.13	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93	\$181.0 \$233.3 \$340.9 \$51.0 \$88.9
Trucks           725           730           735           740           769D           777D           777D           785C           793R	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00 \$43,100.00	\$91.81 \$91.81 \$144.06 \$183.13 \$269.38	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93 \$125.14	\$181.0 \$233.2 \$340.9 \$51.0 \$88.9 \$125.2
Trucks           726           730           735           740           768D           7773E           777D           785C           793C           793C           613E (5,000 gal) Water Wagon	\$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00 \$43,100.00 \$43,100.00 \$6,365.94	\$91.81 \$91.81 \$144.06 \$183.13 \$269.38 \$39.79	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93 \$125.14 \$21.67	\$181.0 \$233.2 \$340.9 \$51.0 \$88.9 \$125.2 \$61.4
Trucks           725           730           735           740           769D           777D           777D           785C           793R	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00 \$43,100.00	\$91.81 \$91.81 \$144.06 \$183.13 \$269.38	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93 \$125.14	\$181.0 \$233.2 \$340.9 \$51.6 \$88.9 \$125.1 \$61.4 \$105.4
Trucks           725           730           735           740           7880           777E           777D           785C           7978           613E (5.000 gal) Water Wagon           621E (8.000 gal) Water Wagon           777D           777D           785C           7978           613E (5.000 gal) Water Wagon           777D Water Truck           785C Water Truck	\$14,690.00 \$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00 \$43,100.00 \$6,365.94 \$10,773.13	\$91.81 \$144.06 \$183.13 \$269.38 \$39.79 \$67.33	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93 \$125.14 \$21.67 \$38.07 \$35.68 \$51.65	\$145.2 \$181.0 \$233.2 \$340.9 \$51.6 \$88.9 \$125.2 \$61.4 \$105.4 \$105.4 \$35.6 \$51.6
Trucks           725           730           730           735           740           7850           7778           7785           7937           6135 (5.000 gal) Water Wagon           6215 (6.000 gal) Water Wagon           6215 (6.000 gal) Water Wagon           777D Water Truck           7780 Water Truck           7850 Water Truck	\$14,690.00 \$14,690.00 \$23,050.00 \$29,300.00 \$43,100.00 \$43,100.00 \$6,365.94	\$91.81 \$91.81 \$144.06 \$183.13 \$269.38 \$39.79	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93 \$125.14 \$21.67 \$38.07 \$38.07	\$181.0 \$233.2 \$340.9 \$51.6 \$88.9 \$125.7 \$61.4 \$105.4 \$35.6
Trucks           726           730           735           740           7800           7773E           777D           785C           7976           613E (5.000 gal) Water Wagon           613E (5.000 gal) Water Wagon           727D Water Truck           778D Water Truck           Dump Truck (10-12 yd ³ )           NOTEs:	\$14,690.00 \$14,690.00 \$23,050.00 \$23,050.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00	\$91.81 \$144.06 \$183.13 \$269.38 \$39.79 \$67.33	\$53.48 \$37.00 \$50.10 \$71.54 \$51.65 \$88.93 \$125.14 \$21.67 \$38.07 \$35.68 \$51.65	\$181.0 \$233.2 \$340.9 \$51.0 \$88.9 \$125.1 \$61.4 \$105.4 \$105.4 \$35.0 \$51.0
Trucks           725           730           730           735           740           760D           773E           7773E           7770           788C           7938           21216 (8000 gal) Water Wagon           6212 (6000 gal) Water Wagon           6212 (6000 gal) Water Wagon           0212 (6000 gal) Water Wagon           077D Water Truck           785C Unter Truck           786C Unter Truck           787 (10-22 gd ³ )           NOTES:           (1) Power Equipment Source	\$14,000.00 \$14,000.00 \$23,050.00 \$23,050.00 \$43,100.00 \$60,365.94 \$10,773.13 \$11,990.00 \$11,990.00	\$91.81 \$91.81 \$14.06 \$183.13 \$269.38 \$39.79 \$67.33 \$74.94	\$53.48 \$37.00 \$50.10 \$71.54 \$88.93 \$125.14 \$21.67 \$38.07 \$35.65 \$51.65 \$12.17	\$181.0 \$233.2 \$340.9 \$51.6 \$88.9 \$125.7 \$61.4 \$105.4 \$35.6 \$35.6 \$87.7
Trucks           725           730           731           732           740           7880           7771           785C           7978           613E (5,000 gal) Water Wagon           621E (6,000 gal) Water Wagon           621E (6,000 gal) Water Wagon           621E (6,000 gal) Water Wagon           621E (0,000 gal) Water Wagon           (1) Power Equipment Souro           (2) Power Equipment Souro           (2) Power Equipment Souro	\$14,690.00 \$14,690.00 \$23,050.00 \$23,050.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$43,100.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,690.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00 \$44,900.00	\$91.81 \$01.81 \$144.06 \$183.13 \$269.38 \$39.79 \$67.33 \$74.94	\$53.48 \$37.00 \$50.10 \$71.54 \$88.93 \$125.14 \$21.67 \$38.07 \$35.65 \$51.65 \$12.17	\$181.0 \$233.2 \$340.9 \$51.6 \$88.9 \$125.7 \$61.4 \$105.4 \$35.6 \$35.6 \$87.7

# Closure Cost Estimate Equipment Costs

Project Name: CHMRP AP-27 Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data: User Data Cost Data: Ilie: SRCE_Cost_Data_File_1_12_Std_2021.xlsm

	PM Cost	Under carriage or	G.E.T Consumption			
EQUIPMENT TYPE	Per Hour ⁽¹⁾	Tires (2)	(3)	Fuel Use Rate gal/hr (4)	Cost@ 2.13/gal	Total Hourly Equipment Cost
Bulldozers		1				
D6R D6R w/ Winch	\$7.86		\$5.34	6.25 6.25	\$13.31 \$13.31	\$26.5 \$13.3
D7R	\$7.86		\$5.34	7.50	\$15.98	\$29.1
D8R D9R	\$8.29 \$9.46		\$10.37 \$16.13	9.75 14.25	\$20.77 \$30.35	\$39.4 \$55.9
D10R	\$11.12		\$22.58	18.00	\$38.34	\$72.0
D11R Wheeled Dozers	\$15.15		\$33.23	26.50	\$56.45	\$104.8
824G		\$0.00	1	10.75	\$22.90	\$22.9
834G		\$0.00		12.60	\$26.84	\$26.8
844 854G		\$0.00		15.00	\$31.95 \$40.47	\$31.9
Motor Graders						
120H 14G/H	\$4.78 \$5.95	\$5.83 \$8.74	\$11.10 \$16.05	4.00 6.25	\$8.52 \$13.31	\$30.2
16G/H	\$6.22	\$11.13	\$10.05	7.50	\$13.31 \$15.98	\$44.0
24M Track Excavators				15.50	\$33.02	\$33.0
312C	\$4.49	-	\$4.15	1.88	\$4.00	\$12.6
320C	\$4.79		\$4.79	4.90	\$10.44	\$20.0
325C	\$4.82		\$6.05	6.60	\$14.06	\$24.9
330C 345B	\$5.94 \$7.89		\$6.65 \$6.81	8.20	\$17.47 \$22.58	\$30.0 \$37.2
365BL				13.20	\$28.12	\$28.1
385BL Scrapers	\$6.61		\$13.94	17.50	\$37.28	\$57.8
631G	\$7.97	\$14.69	\$8.73	15.00	\$31.95	\$63.3
637G	\$13.26	\$14.69	\$10.98	23.75	\$50.59	\$89.5
924G	\$3.97	\$5.60	\$4.76	2.75	\$5.86	\$20.1
928G	\$4.26	\$5.60	\$4.76	3.50	\$7.46	\$22.0
950G	\$5.30	\$5.77	\$8.86	4.00	\$8.52	\$28.4
966G 972G	\$5.53 \$6.25	\$7.87 \$7.87	\$11.11 \$14.08	5.75 6.25	\$12.25 \$13.31	\$36.7
980G	\$6.25	\$10.31	\$14.08	7.50	\$15.98	\$46.6
988G 990	\$11.71	\$13.02	\$15.09	12.10 17.00	\$25.77 \$36.21	\$65.6 \$36.2
992G	\$12.97	\$26.18	\$34.64	23.00	\$48.99	\$30.2
994D				36.00	\$76.68	\$76.6
L2350 Shovels				66.00	\$140.58	\$140.5
PC2000				37.00	\$78.81	\$78.8
PC3000				50.00	\$106.50	\$106.5
PC4000 PC5500				70.00	\$149.10 \$253.47	\$149.1 \$253.4
PC8000				149.00	\$317.37	\$317.3
Hydraulic Hammers			65.70			
H-120 (fits 325) H-160 (fits 345)	N/A N/A		\$5.79 \$11.31			\$5.7
H-180 (fits 365/385)	N/A		\$13.40			\$13.4
Demolition Shears	N/A	-				***
S340 (fits 322/325/330) S365 (fits 330/345)	N/A N/A					\$0.0
S390 (fits 365/385)	N/A					\$0.0
Demolition Grapples G315 (fits 322/325)	N/A		1			\$0.0
G320 (fits 325/330)	N/A					\$0.0
G330 (fits 345/365)	N/A					\$0.0
Other Equipment 420D 4WD Backhoe	\$4.42	\$0.86	\$3.70	3.00	\$6.39	\$15.3
428D 4WD Backhoe	\$4.18	\$0.86	\$3.80	3.00	\$6.39	\$15.2
CS533E Vibratory Roller			N/A	3.75	\$7.99	\$7.9
CS633E Vibratory Roller CP533E Sheepsfoot Compactor			N/A N/A	4.75	\$10.12 \$7.99	\$10.1 \$7.9
CP633E Sheepsfoot Compactor			N/A	4.75	\$10.12	\$10.1
Light Truck - 1.5 Ton Supervisor's Truck		\$0.29 \$0.29	N/A N/A	1.50	\$3.20 \$2.13	\$3.4
Flatbed Truck		\$1.61	N/A	4.70	\$10.01	\$11.6
Air Compressor + tools			N/A	1.00	\$2.13	\$2.1
Welding Equipment Heavy Duty Drill Rig			N/A N/A	2.00	\$4.26 \$25.56	\$4.2
Pump (plugging) Drill Rig			N/A	10.00	\$21.30	\$21.3
Concrete Pump Gas Engine Vibrator			N/A N/A	10.00	\$21.30 \$2.13	\$21.3 \$2.1
Gas Engine Vibrator Generator 5KW			N/A	1.50	\$2.13	\$3.2
HDEP Welder (pipe or liner)			N/A	2.00	\$4.26	\$4.2
5 Ton Crane 20 Ton Crane			N/A N/A	3.00 4.00	\$6.39 \$8.52	\$6.3
50 Ton Crane			N/A	4.70	\$10.01	\$10.0
120 Ton Crane Trucks			N/A	5.20	\$11.08	\$11.0
725	\$8.79	\$15.33	\$3.32	4.70	\$10.01	\$37.4
730	\$8.79	\$15.33	\$3.32	5.20	\$11.08	\$38.5
735 740	\$8.79 \$8.79	\$24.42 \$25.71	\$3.32	7.35	\$15.66 \$15.66	\$52.1 \$53.4
769D	\$8.79	\$25.71 \$7.08	\$3.32 \$3.71	9.25	\$19.70	\$37.0
773E	\$8.05	\$12.86	\$4.16	11.75	\$25.03	\$50.1
777D 785C	\$11.53	\$19.68	\$4.65	16.75 24.25	\$35.68 \$51.65	\$71.5 \$51.6
793C				41.75	\$88.93	\$88.9
797B 613E (5.000 cpl) Water Wagen	er 07	\$3.62		58.75	\$125.14	\$125.1
613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon	\$5.27 \$7.46	\$3.62		6.00 10.75	\$12.78 \$22.90	\$21.6 \$38.0
777D Water Truck				16.75	\$35.68	\$35.6
785C Water Truck Dump Truck (10-12 vd3 ) (5)	N/A	\$1.09	N/A	24.25 5.20	\$51.65 \$11.08	\$51.6 \$12.1
Dump Truck (10-12 yd3 ) (5) Notes:	N/A	\$1.U9	N/A	5.20	\$11.08	\$12.1
(1) PM Source			oted	-		
(2) Undercarriage Source (3) G.E.T. Source			) unless noted			
	Caterpillar Handbook,			for smaller vehicle	s	
		ction (2008)				

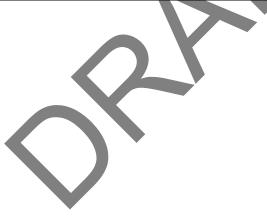
# Closure Cost Estimate Equipment Costs

Project Name: CHMRP AP-27 Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm

TIRE COST TABLES	la_FIIe_1_12_3l0_	2021.315111				
		# of Tires Per Piece	Cost	(1)	Life Expectency Hours	Tire Cost per
Equipment	Tire Size	of Equipment	Per Tire	Tire Cost (1)(2)	(Low/Zone A) ⁽³⁾	Hour
D6R D6R	1	1	N/A	-	1	
D6R w/ Winch			N/A			
D7R			N/A			
D8R D9R			N/A N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers	n	r	-			
824G 834G	29.5R25 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	Lunnar					
120H 14G/H	13PR24 20.5R25	6	\$3,400.00 \$5,100.00	\$20,400.00 \$30,600.00	3,500 3,500	\$5.83 \$8.74
16G/H	23.5R25	6	\$6,490.00	\$38,940.00	3,500	\$11.13
24M	23.5R25	6		\$0.00	3,500	
Track Excavators 312C		1	N/A			
312C 320C			N/A N/A			
325C			N/A			
330C			N/A			
345B 365BL			N/A N/A			
385BL			N/A			
Scrapers		•				
631G	37.25R35	4	\$14,690.00	\$58,760.00	4,000	\$14.69
637G Wheeled Loaders	37.25R35	4	\$14,690.00	\$58,760.00	4,000	\$14.69
924G	17.5R25	4	\$6,300.00	\$25,200.00	4,500	\$5.60
928G	17.5R25	4	\$6,300.00	\$25,200.00	4,500	\$5.60
950G	26.5R25	4	\$6,490.00	\$25,960.00	4,500	\$5.77
966G 972G	26.5R25 26.5R25	4	\$8,850.00 \$8,850.00	\$35,400.00 \$35,400.00	4,500 4,500	\$7.87 \$7.87
980G	29.5R25	4	\$11,600.00	\$46,400.00	4,500	\$10.31
988G	35/65-33	4	\$14,650.00	\$58,600.00	4,500	\$13.02
990	41.25/70-39	4		\$0.00	4,500	
992G 994D	45/65R45 55/85R57	4	\$29,450.00	\$117,800.00 \$0.00	4,500 4,500	\$26.18
L2350	55/85R57	4		\$0.00	4,500	
Shovels				•		
PC2000 PC3000			N/A N/A			
PC4000			N/A N/A			
PC5500			N/A			
PC8000			N/A			
Hydraulic Hammers			N/A			
H-120 (fits 325) H-160 (fits 345)			N/A N/A			
H-180 (fits 365/385)			N/A			
Demolition Shears						
S340 (fits 322/325/330) S365 (fits 330/345)			N/A N/A			
S390 (fits 365/385)			N/A			
Demolition Grapples						
G315 (fits 322/325)			N/A			
G320 (fits 325/330) G330 (fits 345/365)			N/A N/A			
Other Equipment						
420D 4WD Backhoe	340/80R18-19.5LR24	2	\$1,282.50	\$2,565.00	3,000	\$0.86
428D 4WD Backhoe	340/80R18-16.9R28	2	\$1,282.50	\$2,565.00	3,000	\$0.86
CS533E Vibratory Roller CS633E Vibratory Roller			N/A N/A			
CP533E Sheepsfoot Compactor			N/A			
CP633E Sheepstoot Compactor			N/A			
Light Truck - 1.5 Ton		4	220	\$880.00	3,000	\$0.29
Supervisor's Truck Flatbed Truck		4 22	220	\$880.00 \$4,840.00	3,000 3,000	\$0.29
Air Compressor + tools			220 N/A	ψ-r,040.00	5,000	0.19
Welding Equipment			N/A			-
Heavy Duty Drill Rig Pump (plugging) Drill Rig		4		\$0.00 \$0.00	3,000 3,000	
Concrete Pump	1		N/A	φu.00	3,000	
Gas Engine Vibrator			N/A			
Generator 5KW	1		N/A			
HDEP Welder (pipe or liner) 5 Ton Crane		4	N/A	\$0.00	3,000	
20 Ton Crane		4		\$0.00	3,000	
50 Ton Crane		6		\$0.00	3,000	
120 Ton Crane Trucks		6		\$0.00	3,000	
725	23.5R25	6	\$5,110.00	\$30,660.00	2,000	\$15.33
730	23.5R25	6	\$5,110.00	\$30,660.00	2,000	\$15.33
735	26.5R25	6	\$8,140.00	\$48,840.00	2,000	\$24.42
740 769D	29.5R25 18.00R33	6	\$8,570.00 \$7,075.00	\$51,420.00 \$42,450.00	2,000 6,000	\$25.71 \$7.08
769D 773E	24.00R35	6	\$10,720.00	\$42,450.00 \$64,320.00	5,000	\$7.08
777D	27.00R49	6	\$16,400.00	\$98,400.00	5,000	\$19.68
785C	33.00R51	6		\$0.00	4,000	
793C 797B	40.00R57 40.00R57	6		\$0.00 \$0.00	4,000 4,000	
797B 613E (5,000 gal) Water Wagon	40.00R57 23.5R25	6	\$3,620.00	\$0.00	4,000	\$3.62
621E (8,000 gal) Water Wagon	33.25R29	6	\$10,282.00	\$61,692.00	8,000	\$7.71
777D Water Truck	27.00R49	6		\$0.00	5,000	
785C Water Truck Dump Truck (10-12 yd3 )	33.00R51	6 10	\$655.00	\$0.00 \$6,550.00	4,000 6,000	\$1.09
Notes:			4000.00	\$3,330.00	0,000	φ1.09
(1) Unit Cost Basis (2) Cost Basis		red tires				
(3) Tire Cost Source	: Purecell Tire Quote: 2	021				
(4) Tire Wear Source	Caterpillar Handbook,	Edition 35; Ch. 20				

Revegetation Materials	Seed Mixes		
Seed Mix	ā	ľ	Cost/Acre
Seed Mix	Descript	tion	COSI/Acre
NL			
None	Destas		#000 F
Mix 1	Basins Low Hills		\$302.50
Mix 2 Mix 3	Low Hills Uplands		\$332.75 \$363.00
Mix 4	Riparian or Custom	\$393.25	
User Mix 1	Warmer/Drier		\$239.50
User Mix 2	Wetter/Cooler		\$241.00
User Mix 3	-		
User Mix 4	Cost/lb	lbs/Acre	Cost/Acre
Line Mix F (frame Coord Mix about			
User Mix 5 (from Seed Mix sheet Notes:	1	\$25.97	\$0.00
Notes			
	Mulch		
Item	Mulch Cost//b	lbs/Acre	Cost/Acre
ltem		lbs/Acre	Cost/Acre
		lbs/Acre	Cost/Acre
None Straw Mulch	Cost/lb \$0.18	lbs/Acre	Cost/Acre
None Straw Mulch	Cost/lb	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.18 \$0.25 0.25	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch Fimber Mulch	Cost/lb \$0.18 \$0.25		
None Straw Mulch Hydro Mulch Fimber Mulch	Cost/lb \$0.18 \$0.25 0.25		
None Straw Mulch Hydro Mulch Timber Mulch	Cost/lb \$0.18 \$0.25		
None Straw Mulch Hydro Mulch Timber Mulch	Cost/lb \$0.18 \$0.25		
None Straw Mulch Hydro Mulch Timber Mulch	Cost/lb \$0.18 \$0.25		

	Amendments	S	
Item	Cost/lb	lbs/Acre	Cost/Acre
None			
Organic Matter	\$0.70		\$0.00
Treated Sludge			
Chemical	\$0.60		\$0.00
Notes:	Western Nevada Sup	oply \$30.13 per 50 lb	. bag 15-15-15 (2021)



Project Name: CHMRP AP-27 Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: AP_27_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada

ement rout (Low Grade Bentonite) ert Material/Cuttings Jentech Drilling Supply quote (2 Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water t onitoring Costs	/8 in. Chunk Bentonite I	Hole Plug at \$9.25 pe	\$37.8 \$44.0 ag er 50 lb. bag (5.75
out (Low Grade Bentonite) ert Material/Cuttings Jentech Drilling Supply quote (2 Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water t	\$9.25 021) Type I,II Cement a /8 in. Chunk Bentonite I	cy cy cy cy at \$14.95 per 94 lb. ba Hole Plug at \$9.25 pe	\$44.0 \$49
ert Material/Cuttings Jentech Drilling Supply quote (2 Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water t	021) Type I,II Cement a /8 in. Chunk Bentonite I	cy cy cy at \$14.95 per 94 lb. ba Hole Plug at \$9.25 pe	ag
Jentech Drilling Supply quote (2 Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water t	/8 in. Chunk Bentonite I	cy cy at \$14.95 per 94 lb. ba Hole Plug at \$9.25 pe	ag er 50 lb. bag (5.75
Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water 1	/8 in. Chunk Bentonite I	cy at \$14.95 per 94 lb. ba Hole Plug at \$9.25 pe	ag er 50 lb. bag (5.75
Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water 1	/8 in. Chunk Bentonite I	at \$14.95 per 94 lb. ba Hole Plug at \$9.25 pe	ag er 50 lb. bag (5.75
Jentech Drilling Supply (2021) 3 ssumes 1 bag mixes with water 1	/8 in. Chunk Bentonite I	Hole Plug at \$9.25 pe	ag er 50 lb. bag (5.75
ssumes 1 bag mixes with water t			er 50 lb. bag (5.75
	to make 0.21 y3 or 0.16	m3 of grout/cement	
	to make 0.21 y3 or 0.16	m3 of grout/cement	
onitoring Costs			slurry.
onitoring Costs			
Unitering Costs			
Description	Units	Cost/unit	
onitor Well Pump	ea.	\$2,760.43	
ampling Supplies	ea.	\$6.45	
ater Analysis (Profile I) (1)	ea.	\$411.00	
ach Test (MWMP) w/ analysis	ea.	\$483.40	
A + S speciation	ea.	\$150.00	
AD Cyanide in water	ea.	\$56.00	
ater Analysis (Profile II) (1)	ea.	\$461.00	
	ea.		
	ea.	\$156.30	
LAC Profile 1		φ100.00	
LAC Profile 1 Pit Lake	ea.	\$257.10	

43 gal

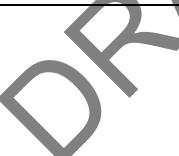
Fuel, Etc.		
Description	Units	Cost/unit
		_
Off-road Diesel - delivered (1)	\$/gal	\$2.130
Pickup Truck Mileage	\$/mi	\$0.560
Electical Power	\$/kWh	\$0.070
(1) Source: Oil Price Infomration Se Source: Federal Government Vehic Source: NV Energy (2021) \$0.07034	le Allowance Rate 2	2021
	Š	

	Slopes			
Disturbance Type	Seed Application Method	Labor	Equipment	Total
		Cost/Acre	Cost/Acre	Cost/Acre
Waste Rock Dumps	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Heap Leach	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Tailings	Hand Broadcast	\$138.59	\$49.50	\$188.
Quarries & Borrow Pits	Mechanical Broadcast	\$138.59	\$49.50	\$188.
	Flat Areas and Und	ifferentiated		
Disturbance Type	Seed Application Method	Labor Cost/Acre	Equipment Cost/Acre	<b>Total</b> Cost/Acre
Exploration Trenches	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Exploration Roads	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Waste Rock Dumps	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Heap Leach	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Tailings	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Quarries & Borrow Pits	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Roads	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Pits	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Haul Material	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Foundations & Buildings	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Sediment & Drainge Control	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Process Ponds	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Landfills	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Yards, Etc.	Mechanical Broadcast	\$138.59	\$49.50	\$188.
Revegetation Maintenance	Mechanical Broadcast	\$138.59	\$49.50	\$188.

evegetation										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Materials	Labor	Equipment	Total	Notes
Seeding - Broadcast Hand (1)		acres					\$138.59	\$49.50	\$188.09	
Seeding - Broadcast Mechanical (1)		acres					\$138.59	\$49.50	\$188.09	
Seeding - Drill (1)		acres		365			\$138.59	\$118.80	\$257.39	
Seeding - Hydroseeding (1)				365			\$247.49	\$148.49	\$395.98	
Shrub Planting - bare root 6-10 in (150- 250mm) (2)	02910-400-0561	ea.	1 Clab	365					\$0.00	
Tree Planting - bare root 11-16 in (270- 400mm) (3)	02910-400-0562	ea.	1 Clab	260					\$0.00	
Cactus Planting (4)		ea.	1 Clab						\$0.00	
NOTES:										
	Source: Kelley Erosion	Control (Pr	ojected fro	m 2020 quot	te).					
(2) Shrub Source:										
(3) Tree Source:										
(4) Cactus Source:										
						nstruction Data	ā.			
lourly productivity rates and crew composition from Mean Il equipment, labor and material unit costs are from Labo	r Costs, Equipment Cos	ts and Ma	terial Costs	spreadshee Daily	Daily Output		a.			
Il equipment, labor and material unit costs are from Labo				spreadshee	ets	Instruction Data	ā. Equipment	Premium	Total	Notes
I equipment, labor and material unit costs are from Labo Building Demolition	r Costs, Equipment Cos Means Number	unit	Crew	Daily Output	Daily Output	Labor	Equipment	Premium		Notes
l equipment, labor and material unit costs are from Labo Building Demolition Lg. steel	r Costs, Equipment Cos Means Number 02220-110-0012	Unit	Crew B-8	Daily Output	Daily Output	Labor \$0.21	Equipment	Premium	\$0.33	Notes
l equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050	Unit C.F. C.F.	Crew B-8 B-8	21500	Daily Output	Labor \$0.21 \$0.29	Equipment \$0.12 \$0.16	Premium	\$0.33 \$0.45	Notes
l equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080	Unit C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8	Spreadshee           Daily           Output           21500           15300           20100	Daily Output	Labor \$0.21 \$0.29 \$0.22	Equipment \$0.12 \$0.16 \$0.12	Premium	\$0.33 \$0.45 \$0.34	Notes
l equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100	Unit C.F. C.F. C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8 B-8 B-8	21500 20100 20100 20100	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12	Premium	\$0.33 \$0.45 \$0.34 \$0.34	Notes
equipment, labor and material unit costs are from Labo suilding Demolition Lg. steel Lg. concrete Lg. masony Lg. mixed Sm. steel	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500	Unit C.F. C.F. C.F. C.F. C.F. C.F.	Erial Costs Crew B-8 B-8 B-8 B-8 B-8 B-8 B-3	Daily Output           21500           15300           20100           14800	Daily Output	\$0.21 \$0.29 \$0.22 \$0.22 \$0.22 \$0.22	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12	Premium	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38	Notes
equipment, labor and material unit costs are from Labor suilding Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500 02220-110-0600	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F.	Errial Costs Crew B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3	Daily Output           21500           15300           20100           14800           11300	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.22 \$0.26 \$0.34	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16	Premium	\$0.33 \$0.45 \$0.34 \$0.34 \$0.34 \$0.38 \$0.50	Notes
equipment, labor and material unit costs are from Labor suilding Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F.	B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3	Daily Output           21500           15300           20100           20100           14800           14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.26 \$0.34 \$0.26	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16 \$0.12	Premium	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38	Notes
equipment, labor and material unit costs are from Labor suilding Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500 02220-110-0600	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F.	Errial Costs Crew B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3	Daily Output           21500           15300           20100           14800           11300	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.22 \$0.26 \$0.34	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16	Premium	\$0.33 \$0.45 \$0.34 \$0.34 \$0.34 \$0.38 \$0.50	Notes
I equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F.	B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3	Daily Output           21500           15300           20100           20100           14800           14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.26 \$0.34 \$0.26	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16 \$0.12	Premium	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38	Notes
equipment, labor and material unit costs are from Labor suilding Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F.	B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3	Daily Output           21500           15300           20100           20100           14800           14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.26 \$0.34 \$0.26	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16 \$0.12	Premium	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38	Notes
equipment, labor and material unit costs are from Labor suilding Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0700	ts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	Erial Costs Crew B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3	21500 15300 20100 14800 11300 14800 14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.34 \$0.26 \$0.26	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12		\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38 \$0.38 \$0.38	Notes
Lequipment, labor and material unit costs are from Labor Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0650 02220-110-0700 02220-130-2000	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	Erial Costs Crew B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3	21500 20100 20100 20100 14800 14800 14800 14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.34 \$0.26 \$0.26 \$0.26	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12	20%	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38 \$0.38 \$0.38 \$0.38	Notes
equipment, labor and material unit costs are from Labo suilding Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0650 02220-110-0700 02220-130-2000 02220-130-2000	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	Crew B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3	21500 15300 20100 20100 20100 14800 14800 14800 14800 14800 14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.34 \$0.26 \$0.26 \$0.26 \$0.26 \$2.80 \$2.96	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00	20% 20%	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38 \$0.38 \$0.38 \$0.38 \$0.38 \$0.38 \$0.38	Notes
I equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0700 02220-130-2000 02220-130-2040 02220-130-2080	ts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	Erial Costs Crew B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 B-3 Clab 1 Clab 1 Clab	21500 221500 15300 20100 20100 20100 14800 14800 14800 14800 14800 14800 14800 14800 14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.26 \$0.26 \$0.26 \$0.26 \$2.80 \$2.96 \$3.36	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00	20% 20% 20% 20%	\$0.33 \$0.45 \$0.34 \$0.34 \$0.38 \$0.50 \$0.38 \$0.38 \$0.38 \$3.36 \$3.55 \$4.03	Notes
I equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 8 in (200 mm) thick Block 12 in (300 mm) thick	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0650 02220-130-2000 02220-130-2000 02220-130-2000 02220-130-2400 02220-130-2400	Unit Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	Erial Costs Crew B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 Clab 1 Clab 1 Clab 1 Clab	21500 15300 20100 20100 14800 14800 14800 14800 14800 14800 150 150 150 150 160 140	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.26 \$0.26 \$0.26 \$0.26 \$0.26 \$2.80 \$2.96 \$3.36 \$3.36	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00	20% 20% 20% 20%	\$0.33 \$0.45 \$0.34 \$0.38 \$0.38 \$0.38 \$0.38 \$0.38 \$0.38 \$3.36 \$3.55 \$4.03 \$4.03 \$4.03 \$27.96 \$31.96	Notes
l equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete Sm. concrete Sm. masony Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick Block 8 in (200 mm) thick Conc 6 in (150 mm) thick	r Costs, Equipment Cos Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0650 02220-130-2000 02220-130-2000 02220-130-2080 02220-130-2400	ts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	Erial Costs Crew B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 B-3 Clab 1 Clab 1 Clab 1 Clab B-9	21500 15300 20100 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800	Daily Output	Labor \$0.21 \$0.29 \$0.22 \$0.22 \$0.26 \$0.34 \$0.26 \$0.26 \$0.26 \$0.26 \$0.26 \$0.26 \$0.36 \$3.36 \$3.36 \$3.36 \$3.36 \$23.50	Equipment \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00 \$1.92	20% 20% 20% 20% 20% 10%	\$0.33 \$0.45 \$0.34 \$0.34 \$0.50 \$0.50 \$0.38 \$0.38 \$0.38 \$0.38 \$3.55 \$4.03 \$4.03 \$4.03 \$4.03	Notes

Waste Disposal									
Unit rates from Means Heavy Construction 2006 Edition b	y permission of R.S.Mea	ns/Reed (	Constructio	n Data .					
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Total	Notes
Rubbish Handling									
Dumpster delivery (average for all sizes)	02220-350-0910	ea.			\$49.00			\$49.00	
Haul (average for all sizes)	02220-350-0920	ea.			\$153.00			\$153.00	
Rent per month (average for all sizes)	02220-350-0940	ea.			\$52.00			\$52.00	
Disposal fee per ton (tonne) (average for all sizes)	02220-350-0950	ton			\$57.50			\$57.50	
NOTES:									
	R.S. Means Heavy Cons								
Dumpster Disposal Fee Source:		truction (2	021 Q2).	· · · · · ·					
Hazardous Material Handling - Solids (+ Liqui	ds in drums)								
Pickup fees 55 gal (200 L). drums	02110-300-1100	ea.			\$249.00	~		\$249.00	
Bulk material (average)	02110-300-1220/1230	ton			\$406.00			\$406.00	
Transport - truck load (80 drums, 25 cy (m3), 18 tons)	02110-300-1260/1270	mile			\$5.84			\$5.84	
Dump site solid disposal fee	02110-300-6000/6020	ton			\$285.00			\$285.00	
NOTES:									
Solid Handling Cost Source									
Solid Disposal Fee Source:	2021 Q2 R.S. Means He	avy Const	. ave. 02 8	1					
Hazardous Material Handling - Liquids									
Vacuum Truck Pickup (2200 gal/8300 L)	02110-300-3110	hr.			\$145.00			\$145.00	
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3120	hr.		Í	\$211.00			\$211.00	
Dump site liquid disposal fee	02110-300-6000/6020	ton			\$285.00			\$285.00	
NOTES:									
Liquid Handling Cost Source									
Liquid Disposal Fee Source:	2021 Q2 R.S. Means He	avy Const	. ave. 02 8	1					
Hydrocarbon Contaminated Soils (HCS)									
Insitu Biotreatment	02115-200-2020/2021	C.Y.			\$16.14			\$16.14	
HCS disposal fee	02115-200-2050/2055	C.Y.			\$278.00			\$278.00	
NOTES:									
Insitu Treatement Cost Source									
HCS Disposal Fee Source:	2021 Q2 R.S. Means He	avy Const	., ave. 02 (	65					

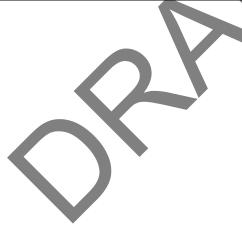
Concrete Structure Installation										
Weekly dumpster rental rates from Means Heavy Construc Weekly dumpster rental rates include haul to off-site dispose			by R.S.Me	ans/Reed Co	onstruction Data					
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Reinforced Concrete Bulkheads and Shaft Cov	vers									
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high	03310-240-4300	C.Y.	C-14D	80.02	\$157.00	\$188.83	\$10.74		\$356.57	includes reinforcing
Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high	03310-240-4350	C.Y.	C-14D	26.2	\$157.00	\$576.72	\$32.79		\$766.51	includes reinforcing
Elevated conc, 1-way beam & slab - 15ft (4.6m) span	03310-240-2700	C.Y.	C-14B	20.59	\$310.00	\$749.04	\$41.73		\$1,100.77	includes reinforcing
Elevated conc, 1-way beam & slab - 25ft (7.5m) span	03310-240-2750	C.Y.	C-14B	28.36	\$287.00	\$543.82	\$30.30		\$861.12	includes reinforcing
Bat Gate/Foam Plug Installation										
Bat Gate (5)		ea.			\$3,333.80					materials \$/ea. Installed
Culvert Gate (5)		ea.			\$6,667.61					materials \$/ea. Installed
Adit Foam Plug (6)		ea./C.Y.			\$333.38					materials \$/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			\$333.38					materials \$/cy placed
NOTES:										
(5) Bat Gate Source: N	V BLM, 2/2006: 8 hr +	+ 1hr mob/d	emob + 1h	r setup per g	ate (adjusted to	2021)				
(6) Foam Plug Source: N	V BLM, 2/2006: 8 hr+	1hr mob/de	emob + 1hr	setup per a	dit; 16 hrs per pro	duction open	ing (adjusted to :	2021)		



Hourly productivity rates and crew composition from Mean						struction Data	ι.			
All equipment, labor and material unit costs are from Labo	r Costs, Equipment Cos	sts and Ma	terial Costs		ets	r				
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
encing Installation			-							
Barbed 3-strand	02820-170-1650	L.F.	B-80A	760	\$0.54	\$1.99	\$0.31		\$2.84	
Barbed 4-strand	extrapolated	L.F.	B-80A	570	\$0.72	\$2.65	\$0.41		\$3.78	
Barbed 5-strand	02820-130-0920	L.F.	B-80A	456	\$0.90	\$3.31	\$0.51		\$4.72	
Chain link 8-10ft (2.5-3m) Install	02820-130-0920	L.F.	B-80C	180	\$43.50	\$8.39	\$1.30		\$53.19	
Wood stockade fence 6 ft (2 m) high - Install	02820-510-1240	L.F.	B-80C	150	\$17.15	\$10.07	\$1.56		\$28.78	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
encing Removal										
Barbed 3-strand Removal	02220-220-1600	L.F.	2 Clab	430		\$2.34	\$0.54		\$2.88	
Barbed 4-strand Removal	extrapolated	L.F.	2 Clab	355		\$2.84	\$0.66		\$3.50	
Barbed 5-strand Removal	02220-220-1650	L.F.	2 Clab	280		\$3.60	\$0.84		\$4.44	
Chain link 8-10 ft (2.5-3 m) Removal	02220-220-1700	L.F.	B-6	445		\$3.86	\$0.91		\$4.77	
Wood, all types 4-6 ft ("1.5-2 m) high - Removal	02220-220-1775	L.F.	2 Clab	430		\$2.34	\$0.54		\$2.88	
	user	L.F.								
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
ulvert Removal										
12 in (300 mm ) Diameter	02220-220-2900	L.F.	B-6	175		\$9.83	\$2.32		\$12.15	
18 in (450 mm) Diameter	02220-220-2930	L.F.	<b>B-</b> 6	150		\$11.46	\$2.70		\$14.16	
24 in (600 mm) Diameter	02220-220-2960	L.F.	B-6	120		\$14.33	\$3.38		\$17.71	
36 in (1m) Diameter	02220-220-3000	L.F.	B-6	90		\$19.11	\$4.51		\$23.62	
ipeline Removal										
0.75 in (20mm) - 4 in (100 mm) diameter	02220-381-1600	L.F.	B-20	700		\$2.96	\$0.33		\$3.29	
6 in (150 mm) - 8 in (200 mm)	02220-381-1700	L.F.	B-20	500		\$4.14	\$0.47		\$4.61	
10 in (250 mm) - 18 in (450 mm)	02220-381-1800	L.F.	B-20	300		\$6.91	\$0.78		\$7.69	
20 in (500 mm) - 36 in (1 m)	02220-381-1900	L.F.	B-20	200		\$10.36	\$1.17		\$11.53	
ipe and Drainpipe Installation										
Water 4in (100mm) 40ft (12m) length, welded HDPE	02510-760-0100	L.F.	B-22A	400	\$3.01	\$7.35	\$4.69		\$15.05	
Water 6in (150mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A	380	\$5.25	\$7.73	\$4.94		\$17.92	
Water 12in (300mm) 40ft (12m) length, welded HDPE	02510-760-0500	L.F.	B-22A	260		\$11.30	\$7.22		\$18.52	
Drain 4in (100mm) perforated PVC	02620-630-2100	L.F.	B-14	315	\$2.08	\$12.04	\$1.55		\$15.67	
Drain 6in (150mm) perforated PVC	02620-630-2110	L.F.	B-14	300	\$4.00	\$12.64	\$1.62		\$18.26	
Drain 4in (100mm) corrugated, perf or plain	02620-660-0040	L.F.	2 Clab	1200	\$0.76	\$0.84	\$0.20		\$1.80	
Drain 6in (150mm) corrugated., perf or plain	02620-660-0060	L.F.	2 Clab	900	\$1.71	\$1.12	\$0.26		\$3.09	

Drain Rock Preparation										
Crushing		C.Y.							\$0.50	
Screening		C.Y.							\$0.50	
TOTAL									\$1.00	
Misc.										
Backhoe work	02210-700-0120	C.Y.	B-11M	28		\$25.53	\$9.02		\$34.55	
Powerline and Transformer Removal										
Single Pole		mile							\$46,333.89	
Double Pole		mile							\$52,953.02	
Transformer (9)		ea.							\$58,405.11	
NOTES:										
(7) Single Pole Source:	0, (	/ /								
(8) Double Pole Source:										
(9) Transformer Source:	NV Energy estimate (20	18) adjuste	ed to 2021							
Erosion and Sedimentation Control										
Hourly productivity rates and crew composition from Mean All equipment, labor and material unit costs are from Labo				spreadshee Daily						
	wears Number	Unit	Clew	Output	Wateriais	Labor	Equipment	Premium	Total	Notes
Rip-Rap & Rock Lining	means Number	Unit	Clew	Output	materials	Labor	Equipment	Premium	Total	Notes
Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted	02370-450-0110	S.Y.	B-13	80	\$24.00	\$47.38	Equipment \$8.43	Premium	<b>Total</b> \$79.81	Notes assumes on-site source of rip-rap
• • •							1.1	Premium		
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted	02370-450-0110	S.Y.	B-13	80	\$24.00	\$47.38	\$8.43	Premium	\$79.81	assumes on-site source of rip-rap
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout	02370-450-0110 02370-450-0200	S.Y. S.Y.	B-13 B-13	80 53	\$24.00 \$7.00	\$47.38 \$71.52	\$8.43 \$12.72	Premium	\$79.81 \$91.24	assumes on-site source of rip-rap assumes on-site source of rip-rap
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep	02370-450-0110 02370-450-0200 02370-450-0400	S.Y. S.Y. S.Y.	B-13 B-13 B-13	80 53 200	\$24.00 \$7.00 \$6.15	\$47.38 \$71.52 \$18.95	\$8.43 \$12.72 \$3.37	Premium	\$79.81 \$91.24 \$28.47	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep	02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500	S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13	80 53 200 163	\$24.00 \$7.00 \$6.15 \$9.20	\$47.38 \$71.52 \$18.95 \$23.26	\$8.43 \$12.72 \$3.37 \$4.14	Premium	\$79.81 \$91.24 \$28.47 \$36.60	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep	02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13	80 53 200 163 153	\$24.00 \$7.00 \$6.15 \$9.20 \$12.55	\$47.38 \$71.52 \$18.95 \$23.26 \$24.78	\$8.43 \$12.72 \$3.37 \$4.14 \$4.41		\$79.81 \$91.24 \$28.47 \$36.60 \$41.74	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep	02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102	\$24.00 \$7.00 \$6.15 \$9.20 \$12.55 \$15.90	\$47.38 \$71.52 \$18.95 \$23.26 \$24.78 \$37.16	\$8.43 \$12.72 \$3.37 \$4.14 \$4.41 \$6.61	Premium	\$79.81 \$91.24 \$28.47 \$36.60 \$41.74 \$59.67	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep	02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102	\$24.00 \$7.00 \$6.15 \$9.20 \$12.55 \$15.90	\$47.38 \$71.52 \$18.95 \$23.26 \$24.78 \$37.16	\$8.43 \$12.72 \$3.37 \$4.14 \$4.41 \$6.61	Premium	\$79.81 \$91.24 \$28.47 \$36.60 \$41.74 \$59.67	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep HDEP Liner Installation	02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102 60	\$24.00 \$7.00 \$6.15 \$9.20 \$12.55 \$15.90	\$47.38 \$71.52 \$18.95 \$23.26 \$24.78 \$37.16 \$63.18	\$8.43 \$12.72 \$3.37 \$4.14 \$4.41 \$6.61 \$11.24	Premium	\$79.81 \$91.24 \$28.47 \$36.60 \$41.74 \$59.67 \$100.42	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep HDEP Liner Installation Finish grading large area	02370-450-0110 02370-450-0200 02370-450-0500 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200 02370-450-0200 2310-100-0100	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.F.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 163 102 60 18000	\$24.00 \$7.00 \$6.15 \$9.20 \$12.55 \$15.90	\$47.38 \$71.52 \$18.95 \$23.26 \$24.78 \$37.16 \$63.18 \$0.07	\$8.43 \$12.72 \$3.37 \$4.14 \$6.61 \$11.24 \$0.06	Premium	\$79.81 \$91.24 \$28.47 \$36.60 \$41.74 \$59.67 \$100.42 \$0.13	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
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Construction Management Support													
Office Trailer, Furnished, no hook-ups	0150-500-0250	mo.			\$199.00				\$199.00				
Toilet Portable, chemical	1590-400-6410	mo.			\$217.20				\$217.20				
TOTAL					\$416.20				\$416.20				
Pump and Casing Removal													
Pump Type													
Pump Removal													
Submersible ft	to pump	L.F.				\$9.72	\$22.82		\$32.54				
Line Shaft ft	to pump	L.F.				\$9.72	\$22.82		\$32.54				
NOTES:													
(10) Pump Removal Source: B	oart Longyear Quote: 2	021											



# Cunningham Hill Mine Reclamation Project New Mexico Mining and Minerals Division Surface Reclamation Cost Estimate May-22

	Direct Cos	ts		
Description	Labor	Equipment	Materials	Total
Earthwork/Recontouring	95,801	157,280	6,101	259,182
Revegetation/Stabilization	2,892	1,024	2,853	6,769
Disposal of Wastes	5,349	14,802	-	20,151
Structure, Equipment and Facility Removal	94,477	25,941	134,250	254,668
Monitoring	108,084	15,906	34,099	158,089
Construction Management & Support	35,145	14,361	-	49,506
Mob/Demob	-	85,094	-	85,094
Direct Costs Total	\$ 341,748	\$ 314,408	\$ 177,303	\$ 833,459

	Indirect Costs	
	Description	Total
Engineering, Design and Construction		66,677
Contingency		66,677
Insurance		5,126
Performance Bond		25,004
Contractor Profit		83,346
Contract Administration		83,346
	Indirect Costs Total	\$ 330,176

Grand Total \$ 1,163,635

Closure Cost Estimate Property Information

Enter Data Below in Green and Blue Spaces

# STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019) Approved for use in Nevada, August 1, 2012

COST DATA FILE INFORMATIC	DN
File Name:	Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm
Cost Data File:	SRCE_Cost_Data_File_1_12_Std_2021.xlsm
Cost Data Date:	August 1, 2021
Cost Data Basis:	User Data Cost Units: Imperial
Author/Source:	Nevada Division of Environmental Protection (NDEP) & NV BLM
PROJECT INFORMATION	
Property/Mine Name:	Cunningham Hill Mine Reclamation Proje Property Code:
Project Name:	CHMRP Surface Reclamation Cost Estimate
Date of Submittal:	May 2022 Average Altitude: 7100 ft.
Select One:	□ Notice or Sm Exploration Plan □ Lg Exploration Plan □ Mine Operation
Select One:	Private Land Public or Public/Private
Cost Estimate Type:	Surety
Cost Basis Category:	Northern Nevada Select Zone >>>
Cost Basis Description:	Churchill, Douglas, Elko, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White Pine Counties

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#### Name: CHMRP Surface Reclamation Cost Estimate Project Date: May 2022 eclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Reclamation Plan

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## Closure Cost Estimate Cost Summary

#### Project Name: CHMRP Surface Reclamation Cost Estimate Project Date: May 2022 Model Version: Version 1.4.1 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xIsm

A. Earthwork/Recontouring	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Exploration Exploration Roads & Drill Pads	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Exploration Roads & Drill Pads Roads	\$0 \$287	\$0 \$776	\$0	\$0 \$1,063
Well Abandonment	\$66,619	\$106,766	\$6,101	\$179,486
Pits Quarries & Borrow Areas	\$0 \$528	\$0 \$1,160	N/A	\$0 \$1,688
Underground Openings	+528 \$0	\$1,180	\$0 \$0	\$1,088
Process Ponds	\$23,066	\$36,971	\$0	\$60,037
Heaps Waste Rock Dumps	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Landfills	\$0 \$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas Yards, Etc.	\$2,421 \$2,880	\$5,504 \$6,103	\$0 \$0	\$7,925 \$8,983
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet) Other**	\$0	\$0	\$0	\$0 \$0
Subtotal	\$95,801	\$157,280	\$6,101	\$259,182
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	\$0
Mob/Demob	ψυ	\$85,094	ψU	\$85,094
Subtotal "A"	\$95,801	\$242,374	\$6,101	\$344,276
B. Revegetation/Stabilization	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads Roads	\$0 \$323	\$0 \$115	\$0 \$562	\$0 \$1,000
Well Abandonment				N/A
Pits Quarries & Borrow Areas	\$0 \$130	\$0 \$49	\$0 \$241	\$0 \$429
Underground Openings	\$139	\$49	\$241	\$429 N/A
Process Ponds	\$1,112	\$392	\$844	\$2,348
Heaps Waste Rock Dumps	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Landfills	\$0 \$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas Yards, Etc.	\$554 \$764	\$198 \$270	\$120 \$1,086	\$872 \$2,120
Drainage & Sediment Control	\$704	\$270	\$1,080	\$2,120
Generic Material Hauling	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet) Other**	\$0	\$0	\$0	\$0 \$0
Subtotal "B"	\$2,892	\$1,024	\$2,853	\$6,769
			+_,	++,
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Process Pendo/Sludge				
Process Ponds/Sludge				\$0
Heaps				\$0
				\$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal				\$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring				\$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Durps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site	\$5,349	\$14,802	  N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site	\$5,349			\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$20,151 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials		\$14,802		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$20,55 \$0 \$20,55 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solls Other User Costs (from Other User Sheet)	\$5,349 \$5,349 \$0 \$0		N/A \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$20,161 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solls Other User Costs (from Other User Sheet) Other*	\$0 \$0	\$14,802 \$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solls Other User Costs (from Other User Sheet)	\$0	\$14,802	\$0	\$0 \$0 \$0 \$0 \$0 \$0 \$20,161 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User Sheet) Other* Subtotal "C"	\$0 \$0 <b>\$5,349</b>	\$14,802 \$0 \$0 \$0 \$14,802	\$0 \$0 <b>\$0</b>	\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solls Other User Costs (from Other User Sheet) Other*	\$0 \$0	\$14,802 \$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other User Sheet)         Other"         Subtotal "C"	\$0 \$0 <b>\$5,349</b> Labor ⁽¹⁾ \$9,833 \$0	\$14,802 \$0 \$0 <b>\$14,802</b> Equipment ⁽²⁾ \$4,412 \$0	\$0 \$0 \$0 Materials \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$0 \$0 \$0 \$20,50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Costs (from Other User sheet) Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	\$0 \$0 <b>\$5,349</b> Labor ⁽¹⁾ \$9,833 \$0 \$17,974	\$14,802 \$0 \$0 \$14,802 <b>Equipment</b> ⁽²⁾ \$4,412 \$0 \$7,636	\$0 \$0 \$0 Materials \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User Sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demonition Foundation Demonit	\$0 \$0 <b>\$5,349</b> Labor ⁽¹⁾ \$9,833 \$0	\$14,802 \$0 \$0 <b>\$14,802</b> Equipment ⁽²⁾ \$4,412 \$0	\$0 \$0 \$0 Materials \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$0 \$0 \$0 \$20,50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersinger) Other User Costs (from Other Usersinger) Other "* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Cubert Removal	\$0 \$0 <b>\$5,349</b> <b>Labor</b> (1) \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080\$10,080\$100\$10,080\$100\$10,080\$100\$10,080\$100\$100\$100\$100\$100\$100\$1	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$0 \$0 \$	\$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$130,500 N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$22,683 \$15,480 \$15,480
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User Sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$17,974 \$17,390 \$19,080 \$19,080 \$0 \$30,200	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900	\$0 \$0 <b>\$0</b> <b>\$0</b> <b>Materials</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$22,643 \$0 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640 \$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,640\$\$25,6
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User Sheet) Other 'ser Costs (from Other User Sheet) Other 'ser Costs (from Other User Sheet) D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal	\$0 \$0 <b>\$5,349</b> <b>Labor</b> (1) \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$19,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080 \$10,080\$10,080\$100\$10,080\$100\$10,080\$100\$10,080\$100\$100\$100\$100\$100\$100\$1	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$0 \$0 \$	\$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$130,500 N/A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User Sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Rip-tap, rock Ining, gabions	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$17,974 \$17,390 \$19,080 \$19,080 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$0 \$4,700 \$0 \$4,700	\$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A N/A \$0 \$130,500	\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$22,631 \$15,460 \$22,683 \$153,460 \$30 \$23,650 \$23,650 \$30 \$24,900 \$0 \$33,900 \$30 \$34,900 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solls Other User Costs (from Other User sheet) Other '*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Transformer Removal Transformer Removal Rip-rap, rock Iming, gabions Other Mark Costs	\$0 \$0 <b>\$5,349</b> <b>Labor</b> (1) \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$19,080 \$00 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment (2) \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$3,900 \$0 \$4,700 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A \$130,500 \$130,500 \$130,500 \$0 \$130,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$20,151 <b>Total</b> \$14,245 \$14,245 \$10 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$154,490 \$23,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,580 \$20,590 \$20,590 \$20,590 \$20,590 \$20,590 \$20,590 \$20,590 \$20,590 \$20,590 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User Sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Rip-tap, rock Ining, gabions	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$17,974 \$17,390 \$19,080 \$19,080 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$0 \$4,700 \$0 \$4,700	\$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A N/A \$0 \$130,500	\$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$22,683 \$153,480 \$33,480 \$34,900 \$30 \$34,900 \$30 \$30 \$35,561 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480 \$35,480\$35,580 \$35,480 \$35,480 \$35,480\$35,480 \$35,480 \$35,480 \$35,480\$35
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscelaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User Sheet) Other '* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap. rock lining, gabions Other User Costs (from Other User sheet)	\$0 \$0 <b>\$5,349</b> <b>Labor</b> (1) \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$19,080 \$00 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment (2) \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$3,900 \$0 \$4,700 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A \$130,500 \$130,500 \$130,500 \$0 \$130,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$20,151 <b>Total</b> \$14,245 \$20,151 \$153,480 \$22,683 \$153,480 \$33,900 \$0 \$0 \$33,900 \$0 \$3,750 \$3,750 \$50 \$3,750 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other Usersheet) Other '-  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pransformer Removal Transformer Removal Rip-rap, rock Iming, gabions Other User Costs (from Other User sheet) Other '- Subtotal "D"	\$0 \$0 \$5,349 <b>Labor</b> ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$30,200 \$0 \$30,200 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$14.802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$2,5941	\$0 \$0 <b>Materials</b> \$0 \$130,500 N/A N/A \$0 \$3,750 \$134,250	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 Total \$14,245 \$0 \$20,151 \$14,245 \$0 \$20,151 \$0 \$20,151 \$0 \$20,55,60 \$0 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$22,683 \$153,480 \$20,555 \$154,668
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other Usersheet)         Other'*         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Pence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Transformer Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other"         Subtotal "D"         E. Monitoring	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,374 \$17,374 \$19,080 \$0 \$30,200 \$0 \$30,200 \$0 \$30,200 \$0 \$30,200 \$0 \$30,200 \$0 \$0 \$30,200 \$0 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$25,941 \$25,941 Equipment ⁽²⁾	\$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$130.500 N/A N/A \$0 \$0 \$3,750 \$134,250 Materials	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Of Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other User Sheet)         Other ''         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other User Costs (from Other User Sheet)         Other Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Transformer Removal         Tarnsformer Removal         The User Costs (from Other User sheet)         Other "         Subtotal "D"	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$30,200 \$30,200 \$30,200 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$4,700 \$0 \$25,941 Equipment ⁽²⁾ \$5,501	\$0 \$0 \$0 Materials \$0 \$0 \$0 \$130,500 N/A N/A N/A \$0 \$3,750 \$134,250 Materials \$2,851	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$153,480 \$33,750 \$254,668 <b>Total</b> \$33,750 \$254,668 <b>Total</b> \$6,796
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other Usersheet)         Other'*         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Fence Removal         Pence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Transformer Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other"         Subtotal "D"         E. Monitoring	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,374 \$17,374 \$19,080 \$0 \$30,200 \$0 \$30,200 \$0 \$30,200 \$0 \$30,200 \$0 \$30,200 \$0 \$0 \$30,200 \$0 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,477 \$1,	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$25,941 \$25,941 Equipment ⁽²⁾	\$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$130.500 N/A N/A \$0 \$0 \$3,750 \$134,250 Materials	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Removal Fence Removal Represent Solis Other User Costs (from Other User sheet) Other User Costs Other User Cos	\$0 \$0 \$5,349 Labor (1) \$9,833 \$0 \$17,974 \$17,390 \$19,080 \$00 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment (2) \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$4,700 \$0 \$4,700 \$0 \$25,941 Equipment (2) \$5,501 \$10,405 \$10,405	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A N/A \$0 \$3,750 \$134,250 <b>Materials</b> \$2,851 \$31,248	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other '* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other User Costs (from Other User Sheet) Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Other User Costs (from Other User sheet) Subtotal "D"	\$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,300 \$19,080 \$00 \$30,200 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment (2) \$4,412 \$0 \$7,636 \$5,293 \$5,293 \$5,293 \$5,293 \$3,900 \$0 \$4,700 \$0 \$4,700 \$0 \$5,501 \$0 \$25,941 Equipment (2) \$5,501 \$10,405 \$0 \$15,906	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$130,500 N/A N/A \$0 \$0 \$3,750 \$134,250 <b>Materials</b> \$2,851 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,750 \$31,750 \$31,750 \$31,750 \$31,250 \$31,250 \$31,250 \$31,750 \$31,750 \$31,750 \$31,750 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250 \$31,250	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> <b>Total</b> \$153,480 \$30 \$30 \$24,5610 \$22,683 \$153,480 \$25,610 \$22,683 \$153,480 \$25,610 \$22,683 \$153,480 \$25,610 \$22,683 \$153,480 \$25,610 \$22,683 \$153,480 \$0 \$25,610 \$25,610 \$22,683 \$153,480 \$0 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$22,683 \$0 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$25,610 \$20,615 \$0 \$25,610 \$0 \$0 \$25,610 \$0 \$0 \$0 \$0 \$25,610 \$0 \$0 \$0 \$25,610 \$0 \$0 \$0 \$25,610 \$0 \$0 \$0 \$0 \$25,610 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other Usersheet)         Other"         Subtotal "C"    D. Structure, Equipment and Facility Removal, and Misc.          Foundation & Buildings Areas         Other Demolition         Equipment Removal         Pence Installation         Culvert Removal         Pience Removal         Pence Installation         Culvert Removal         Pipe Removal         Powefine Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other "         Subtotal "D"         E. Monitoring         Reclamation Monitoring and Maintenance         Ground and Surface Water Monitoring         Other User Costs (from Other User sheet)         Subtotal "E"         F. Construction Management & Support	\$0 \$0 \$5,349 Labor (1) \$9,833 \$0 \$17,974 \$17,300 \$19,080 \$00 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment (2) \$4,412 \$0 \$7,636 \$5,293 \$5,293 \$3,900 \$0 \$4,700 \$0 \$4,700 \$0 \$0 \$25,941 Equipment (2) \$5,501 \$10,405 \$0 \$15,906 Equipment (2)	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A \$0 \$0 \$3,750 <b>\$134,250</b> <b>Materials</b> \$31,248 \$31,248 \$31,248 \$31,248	\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 \$0 \$20,151 <b>Total</b> \$14,245 \$14,245 \$20,151 <b>Total</b> \$22,683 \$53,4900 \$22,683 \$153,480 \$33,900 \$30 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$33,750 \$0 \$1,273 \$0 \$1,273 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,274 \$0 \$1,
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other User Sheet)         Other's         Subtotal "C"    D. Structure, Equipment and Facility Removal, and Misc.          Foundation & Buildings Areas         Other Demoition         Equipment Removal         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Transformer Removal         Rip-rap, rock lining, gabions         Other User Costs (from Other User sheet)         Other "         Subtotal "D"         E. Monitoring         Order '*         Subtotal "D"         E. Monitoring and Maintenance         Ground and Surface Water Monitoring         Other User Costs (from Other User sheet)         Other User Costs (from Other User sheet)         Other User Costs (from Other User sheet)         Subtotal "E"	\$0 \$0 \$0 \$0 \$0 \$0 \$17,974 \$17,974 \$17,974 \$19,980 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$5,521 \$3,900 \$0 \$3,900 \$0 \$4,700 \$0 \$25,941 Equipment ⁽²⁾ \$5,501 \$10,405 \$0 \$15,906 Equipment ⁽²⁾ \$8,141	\$0 \$0 \$0 Materials \$0 \$0 \$0 \$130,500 \$130,500 \$134,050 \$134,250 Materials \$2,851 \$31,248 \$0 \$31,248 \$0 \$34,099 Materials \$//A	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Off Site         Hazardous Materials         Hydrocarbon Contaminated Soils         Other User Costs (from Other Usersheet)         Other ''         Subtotal "C"         D. Structure, Equipment and Facility Removal, and Misc.         Foundation & Buildings Areas         Other Demolition         Equipment Removal         Pence Installation         Culvert Removal         Pipe Removal         Powerline Removal         Rip-rap, rock Ining, gabions         Other User Costs (from Other User sheet)         Other User Costs (from Other User sheet)         Other User Costs (from Other User sheet)         Other "Isc. Costs         Other User Costs (from Other User sheet)         Other "Isc. Costs (from Other User sheet)         Other User Costs (from Other User sheet)         Other User Costs (from Other User sheet)         Subtotal "D"         Fe. Monitoring         Mettoring         For Construction Management & Support	\$0 \$0 \$5,349 Labor (1) \$9,833 \$0 \$17,974 \$17,300 \$19,080 \$00 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment (2) \$4,412 \$0 \$7,636 \$5,293 \$5,293 \$3,900 \$0 \$4,700 \$0 \$4,700 \$0 \$0 \$25,941 Equipment (2) \$5,501 \$10,405 \$0 \$15,906 Equipment (2)	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A \$0 \$0 \$3,750 <b>\$134,250</b> <b>Materials</b> \$31,248 \$31,248 \$31,248 \$31,248	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$153,480 <b>\$256,6796</b> \$158,480 <b>\$2554,668</b> <b>Total</b> \$158,480 \$254,66796 \$159,480 \$2554,66796 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480 \$159,480
Heaps         Dumps (Waste & Landfill)         Tailings         Surplus Water Disposal         Monitoring         Miscellaneous         Solid Waste - On Site         Solid Waste - Of Site         Hazardous Materials         Hydrocarbon Contaminated Soits         Other User Costs (from Other User Sheet)         Other User Costs (from Other User Sheet)         Other User Costs (from Other User Sheet)         Other Temoval         Foundation & Buildings Areas         Other Demoval         Fence Removal         Fence Installation         Culvert Removal         Pipe Removal         Pipe Removal         Pipe Removal         Rip-rap, rok lining, gabions         Other User Costs (from Other User sheet)         Subtotal "D"         F. Construction Management         Construction Management <t< td=""><td>\$0 \$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,374 \$17,370 \$19,080 \$00 \$00 \$00 \$00 \$00 \$00 \$00</td><td>\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$4,700 \$0 \$5,541 \$0 \$5,541 <b>Equipment ⁽²⁾</b> \$5,501 \$15,906 <b>Equipment ⁽²⁾</b> \$15,906</td><td>\$0 \$0 \$0 Materials \$0 \$0 \$0 \$130,500 N/A N/A \$0 \$3,750 \$134,250 Materials \$2,851 \$31,248 \$2,851 \$31,248 \$2,851 \$31,248 \$2,851 \$31,248 \$0 \$34,099 Materials N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$20,151 <b>Total</b> \$20,151 <b>Solution</b> \$20,151 \$152,460 \$22,683 \$153,480 \$33,900 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 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\$15,906	\$0 \$0 \$0 Materials \$0 \$0 \$0 \$130,500 N/A N/A \$0 \$3,750 \$134,250 Materials \$2,851 \$31,248 \$2,851 \$31,248 \$2,851 \$31,248 \$2,851 \$31,248 \$0 \$34,099 Materials N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$20,151 <b>Total</b> \$20,151 <b>Solution</b> \$20,151 \$152,460 \$22,683 \$153,480 \$33,900 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 \$33,750 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Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other " Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other User Costs (from Other User sheet) Cubrer Temoval Fence Installation Cubvert Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Uther User Costs (from Other User sheet) Other User Costs (from Other User sheet) Subtotal "D" Fc. Construction Management & Support Construction Management Read Maintenance Other User Costs (from Other User sheet) Subtotal "E" F. Construction Management & Support Construction Support Road Maintenance Other User Costs (from Other User sheet) Other "	\$0 \$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,974 \$17,974 \$17,974 \$19,080 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$5,293 \$3,900 \$4,700 \$0 \$5,501 \$0 \$5,501 \$1,500 \$15,906 Equipment ⁽²⁾ \$15,906 \$15,906 Equipment ⁽²⁾ \$3,141 \$1,303 \$4,917 \$5,141 \$1,303 \$4,917 \$0 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,501 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1,500\$1	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$0 \$130,500 N/A N/A \$0 \$33,750 <b>\$134,250</b> <b>Materials</b> \$2,851 \$31,248 \$0 \$34,099 <b>Materials</b> N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20,151 <b>Total</b> \$14,245 \$0 \$20,151 <b>Total</b> \$22,683 \$25,610 \$22,683 \$25,810 \$22,683 \$153,480 \$25,810 \$22,683 \$153,480 \$30 \$25,610 \$22,683 \$153,480 \$0 \$33,900 \$30 \$33,750 \$0 \$254,668 <b>Total</b> \$66,796 \$91,293 \$0 \$158,808 <b>Total</b> \$66,796 \$91,293 \$0 \$158,808 <b>Total</b> \$66,796 \$91,293 \$0 \$158,808 <b>Total</b> \$39,863 \$153,808 <b>Total</b> \$39,863 \$153,400 \$33,400 \$30 \$30 \$30 \$31,50 \$0 \$0 \$30 \$31,50 \$0 \$0 \$30 \$0 \$30 \$31,50 \$0 \$0 \$30 \$30 \$31,50 \$0 \$0 \$30 \$30 \$31,50 \$0 \$0 \$30 \$30 \$30 \$31,50 \$0 \$30 \$30 \$31,50 \$0 \$0 \$30 \$30 \$31,50 \$0 \$0 \$30 \$30 \$30 \$30 \$30 \$30
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solts Other User Costs (from Other User sheet) Other '' Subtotal ''C' D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other User Costs (from Other User sheet) Cubrer Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Cubrer User Costs (from Other User sheet) Other " Subtotal "D" E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$0 \$5,349 Labor (1) \$9,833 \$0 \$17,974 \$17,300 \$00 \$30,200 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$25,941 Equipment ⁽²⁾ \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405 \$10,405\$10,405\$10,405\$10,	\$0 \$0 \$0 <b>Materials</b> \$0 \$0 \$130,500 N/A N/A \$0 \$3,750 \$134,250 <b>Materials</b> \$2,851 \$31,248 \$0 \$34,099 <b>Materials</b> N/A \$0 \$0 \$0 \$3,760 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$134,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,250 \$155,	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solls Other User Costs (from Other Usersheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Installation Culvert Removal Represent Removal Represent Removal Represent Removal Represent Removal Represent Removal Represent Removal Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "D"  F. Construction Management & Support Construction Management Construction Management Construction Support Read Maintenance Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$0 \$0 \$0 \$0 \$0 \$17,974 \$17,390 \$19,080 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$0 \$3,3900 \$0 \$4,700 \$0 \$25,941 Equipment ⁽²⁾ \$5,501 \$10,405 \$0 \$15,906 Equipment ⁽²⁾ \$8,141 \$1,303 \$4,917 \$0 \$14,361	\$0 \$0 \$0 Materials \$0 \$0 \$0 \$130,500 \$130,500 \$134,250 Materials \$2,851 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$31,248 \$30,500 \$31,248 \$31,248 \$30,500 \$31,248 \$31,248 \$30,500 \$30,500 \$31,248 \$31,248 \$30,500 \$31,248 \$31,248 \$31,248 \$30,500 \$31,248 \$30,500 \$31,248 \$30,500 \$31,248 \$30,500 \$31,248 \$30,500 \$31,248 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,500 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,5000 \$30,50000 \$30,50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other Usersheet) Other " Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other User Costs (from Other Usersheet) Other Temoval Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Powefine Removal Transformer Removal Transformer Removal Other User Costs (from Other User sheet) Other User Costs Other User Costs Other User Costs Costs Other User Costs Costs Other User Costs Costs Other User Costs Construction Management & Support Construction Support Read Maintenance Other User Costs (from Other User sheet) Other User Costs Other User Costs Costs Other User Costs Construction Management Construction Support Read Maintenance Other User Costs (from Other User sheet) Other "	\$0 \$0 \$0 \$5,349 Labor ⁽¹⁾ \$9,833 \$0 \$17,974 \$17,974 \$17,974 \$17,974 \$19,080 \$00 \$00 \$00 \$00 \$00 \$00 \$00	\$14,802 \$0 \$0 \$14,802 Equipment ⁽²⁾ \$4,412 \$0 \$7,636 \$5,293 \$3,900 \$4,700 \$0 \$4,700 \$0 \$5,293 \$3,900 \$4,700 \$0 \$5,501 \$0 \$5,501 \$1,500 \$15,906 Equipment ⁽²⁾ \$15,906 \$15,906 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** Other Operator supplied costs - additional documentation required.

#### **Closure Cost Estimate Cost Summary**

#### Project Name: CHMRP Surface Reclamation Cost Estimate

Project Date: May 2022

#### Model Version: Version 1.4.1 File Nemer Surfeee Beele

Indirect Costs				Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)					\$66,67
2. Contingency (8)					\$66,67
3. Insurance (9)		\$5,126			\$5,12
4. Performance Bond (10)					\$25,00
5. Contractor Profit (11)					\$83,34
6. Contract Administration (12)					\$83,34
7. Government Indirect Cost (13)					N/A
Subtotal Add-On Costs					\$330,170
Total Indirect Costs as % of Direct Cost					40%
GRAND TOTAL					\$1,163,635
					+ -,,
Administrative Cost Rates (%)		Cost Ranges	for Indirect Cost	Percentages	
Administrative Cost Rates (%)	62		for Indirect Cost		• - ; - • • ; • • •
	<= \$1.000.000	<=	for Indirect Cost	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	<= \$25,000,000		> \$25,000,000	Small Pla
		<=		>	
1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate	\$1,000,000 8%	<= \$25,000,000 6%	<=	> \$25,000,000 4%	Small Pla
1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8)	\$1,000,000 8%	<= \$25,000,000 6% <=	<=	> \$25,000,000 4% >	Small Pla 09 Small Pla
1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate	\$1,000,000 8% <= \$500,000 10%	<= \$25,000,000 6% <= \$5,000,000	<= <= \$50,000,000	> \$25,000,000 4% > \$50,000,000	Small Pla 09 Small Pla
1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate	\$1,000,000 8% <= \$500,000 10% 1.5%	<=	<=	> \$25,000,000 4% > \$50,000,000	Small Pla ୦୨
Engineering, Design and Construction (ED&C) Plan (7) Variable Rate Contingency (8) Variable Rate Insurance (9)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0%	<= \$25,000,000 6% <= \$5,000,000 8%	<=	> \$25,000,000 4% > \$50,000,000	Small Pla 09 Small Pla
Engineering, Design and Construction (ED&C) Plan (7)     Variable Rate     Contingency (8)     Variable Rate     Insurance (9)     End(10)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if O&M	<=	> \$25,000,000 4% > \$50,000,000	Small Pla 09 Small Pla
Engineering, Design and Construction (ED&C) Plan (7)     Variable Rate     Contingency (8)     Variable Rate     Insurance (9)     End(10)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0% 10%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs of the O&M costs <=	<= \$50,000,000 6% M costs are >\$100,000	> \$25,000,000 4% \$50,000,000 4%	Small Pla 09 Small Pla
Engineering, Design and Construction (ED&C) Plan (7) Variable Rate Contingency (8) Variable Rate Insurance (9) Bond (10) Contractor Profit (11)	\$1,000,000 8% <= \$500,000 10% 3.0% 10% <= \$1,000,000 10%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs of the O&M costs <=	<= \$50,000,000 6% M costs are >\$100,000 <=	> \$ \$25,000,000 4% > \$50,000,000 4% - - - - - - -	Small Pla 0 Small Pla

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

EECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

 Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading,
 The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill hoj in the projectarea. Where the
 Miscellaneous items should be itemized on accompanying worksheets.
 Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper
 Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced,
 Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,
 Fegineering, design and construction (ED&C) plans are often necessary to provide details on the refamilion needs to contract on exerce the required Work. To
 Acontingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contrigency cost as a percentage of the
 Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability haurance is not included in the itemized unit costs.
 Federal construction contracts, use 10% of estimated Q&W cost for the contractor's profit.
 To estimate the contract administration cost. as a percentional and payment bond (Niller Act, 40 USZ 270et seq.). Each bond premium is
 To Federal construction contracts, use 10% of estimated Q&W cost for the contractor's profit.
 To estimate the contract administration cost. as a 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a 13. Government indirect cost rate is 21% of the contract administration costs.

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#### Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

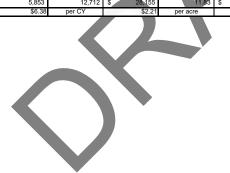
Othe	Other Cost Items Calculated Elsewhere												
	Description (required)	ID Code Facility Type	Quantity	Units	Total Capital Cost \$	Material Unit Cost \$	Labor Unit Cost \$	Equipment/ Operating Unit Cost \$	Cost Type (select)	Total Cost \$	Comments		
	Pond Liner Landfill Tipping Fees	Ponds	50	cu-yd		\$25.00			D. Facility & Equipment	\$1,250			
2	Tipping Fees for General Solid Waste Disposal	Site Facilities - Wells	100	cu-yd		\$25.00			D. Facility & Equipment	\$2,500			
					\$0	\$3,750	\$0	\$0		\$3,750			

Notes: Capital cost is lump sum (i.e. not multiplied by the quantity). Material, Labor and Equipment/Operating costs are unit costs (i.e. multiplied by the quantity). Tipping Fees not Included for material sent to metal recycler

#### Closure Cost Estimate Reclamation Quantities

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Data Cost File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Batimate Type: Surety Cost Basis: Northern Nevada

Re	clamation Quantity Summary																
	Unit Costs																
	Description	Total Regrade or Haul Volume cy	Total Regrade or Haul Cost \$	Total Cover Volume cy	Cover Placement Cost \$	Total Growth Media Volume cy	Growth Media Placement Cost \$	Total Surface Area acres	Total Scarify Cost \$	Total Revetation Cost \$	TOTALS \$	Regrade Unit Cost \$/CY	Material Haul or Backfill Unit Cost \$/CY	Cover Unit Cost \$/CY	Growth Media Unit Cost \$/CY	Scarify Unit Cost \$/CY	Area Unit Cost \$/acre
1	Waste Rock Dumps		\$-		\$-		\$-		\$ -	\$ -	\$-		N/A				
2	Tailings Impoundments		\$-		\$-		\$-		\$ -	\$ -	\$ -		N/A				
3	Heap Leach Pads		\$ -		\$-		\$-		\$ -	\$ -	\$		N/A				
5	Open Pits		\$ -							\$-`	\$ -		N/A				
4	Quarries & Borrow Pits	1,000	\$-	807	\$ 1,384		\$-	1	\$ 304	\$ 429	\$ 2,117	\$0.00	N/A	\$1.71		\$304.00	\$2,117.50
6	Roads	102	\$ 505				\$-	2.33	\$ 558	\$ 1,000	\$ 2,063	\$4.95	N/A			\$239.48	\$885.41
7	Landfills		\$ -		\$-		\$-		\$ -	\$ -	\$-		N/A				
8	Buildings			111	\$ 4,469	323	\$ 2,764	0.5	\$ 692	\$ 872	\$ 8,797		N/A	\$40.26	\$8.56	\$1,384.00	\$17,594.74
9	Yards		\$ -		\$-	3,630	\$ 8,118	4.5	\$ 865	\$ 2,120	\$ 11,103		N/A		\$2.24	\$192.22	\$2,467.33
10	Ponds	22,707	\$ 33,204			8,759	\$ 17,273	3.5		\$ 2,348	\$ 52,825	N/A	\$1.46		\$1.97		\$15,092.86
11	Exploration Roads		\$ -				\$-		\$ -	\$-	\$-		N/A				
12	Exploration Trenches		\$ -							\$-	\$-		N/A				
	Diversion Ditches		\$							s -	\$-		N/A				
	Sediment Ponds		\$ -				\$ -		\$	\$ -	\$-						
	Generic Haulage/Backfill		\$ -		\$ -		\$ -		\$ -	\$ ·	\$-	N/A					
	Adit/Decline Backfilling1		\$								\$-	N/A					
17	Shaft Backfilling		\$ -								\$-	N/A					
	TOTALS	23,809	\$ 33,709					11.83		, ., .							
	Average Costs	per CY	\$1.4	2 per CY	\$6.38	per CY	\$2.21	per acre	\$204.48	\$2.80	\$6,501	per acre					



#### **Closure Cost Estimate** Roads

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

		Labor	Equipment	Materials	Totals
Grading Costs		\$143	\$362	N/A	\$50
Cover Placement Cost		\$0	\$0	N/A	\$
Ripping/Scarifying Cost		\$144	\$414	N/A	\$55
	Subtotal Earthworks	\$287	\$776		\$1,06
Revegetation Cost		\$323	\$115	\$562	\$1,00
	TOTALS	\$610	\$891	\$562	\$2,06

#### Go To Labor Rates sheet and select Zone for Each Labor Classification

Roa	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							verrides	Growth Media			
	Description (required) ID Code Type				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	Well Roads	Access Road	2.0 1.3 75.0 10.0 10,000 100%							0.0	0	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) 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.

All roads are relatively flat and will be scarified and seeded.

Roads - User Input (cont.)					
		Haul	Road Safety E	Berms	
Description (required)	Berm Length ft	Berm Height ft	Berm Base Width ft	Berm Sideslope Angle _H:1∨	Number of Berms (2) (1 or 2 sides)
1 Well Roads	0.0	0.0	0.0	0.0	0

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

Roa	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)		Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)	
1	Well Roads	1	LS - broken	Med Excavator	1	Alluvium	Small Truck		User Mix 2	None	None	Yes	Grader	

Notes:

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

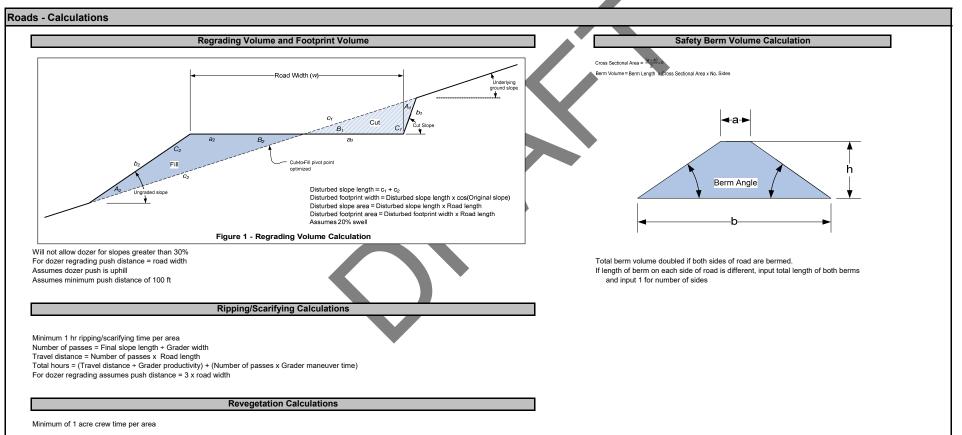
2. If original slope >30% only excavators are allowed.

#### Closure Cost Estimate Roads

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

	Labor	Equipment	Materials	Totals
Grading Costs	\$143	\$362	N/A	\$50
Cover Placement Cost	\$0	\$0	N/A	\$
Ripping/Scarifying Cost	\$144	\$414	N/A	\$55
Subtotal Earthworks	\$287	\$776		\$1,06
Revegetation Cost	\$323	\$115	\$562	\$1,00
TOTALS	\$610	\$891	\$562	\$2,06

#### Go To Labor Rates sheet and select Zone for Each Labor Classification



#### Closure Cost Estimate Roads

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

		Labor	Equipment	Materials	Totals
Grading Costs		\$143	\$362	N/A	\$505
Cover Placement Cost	Г	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$144	\$414	N/A	\$558
	Subtotal Earthworks	\$287	\$776		\$1,063
Revegetation Cost		\$323	\$115	\$562	\$1,00
	TOTALS	\$610	\$891	\$562	\$2,063

Road	Roads - Regrading Costs										
		1	1	-	1						
	Description	Regrading Volume	Recontouring Fleet	Fleet Productivity	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Regrading Cost			
	(required)	су		cy/hr	hr	\$	s	\$			
1	Well Roads	102	345B	480	1	\$143	\$362	\$505			
-		102			1	\$143	\$362	\$505			
			-								

Road	Roads - Growth Media Costs									
	Description (required)	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$	
1	Well Roads						\$	0 \$0	\$0	
							\$	0 \$0	\$0	

Roads - Scarifying/Revegetation Costs	Roads	- Scarif	ving/Rev	vegetation	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	Well Roads	2.33	10.0	16G/H	2	\$144	\$414	\$558	\$323	\$115	\$562	\$1,000
-		2.33			2	\$144	\$414	\$558	\$323	\$115	\$562	\$1,000

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#### Go To Labor Rates sheet and select Zone for Each Labor Classification

# Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xism Model Version: Version 1.4.1 Cost Data: Liser Data Cost Data: Lise: SRCE_Cost_Data_File_1_12_Std_2021.xism Cost Estimate Type: Surety Cost Basis: Northern Nevada

aste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	lotals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$457	\$927	N/A	\$1,384
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$71	\$233	N/A	\$304
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$528	\$1,160	\$0	\$1,688
Revegetation Cost	\$139	\$49	\$241	\$429
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$139		\$241	\$429
TOTALS	\$667	\$1,209	\$241	\$2,117

Qui	arries & Borrow Pits - User Input				You must fill in	n ALL green			dump, lift or du	ump category										
	Facility Description						Phys	ical - MAND	ATORY					c	Cover			Growth	Media	
	Description (required)	ID Code	Туре	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	elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow	Slope from Dump to Cover Borrow % grade	Slope Growth Media Thickness in		Distance from Growth Media Stockpile	Slope from Dump to Stockpile % grade
1	Borrow area		Borrow Pit	1.0	3.0	1.0	1.0	0	0	510	1.00	1000	6.0	6.0	0	1.0	0.0	0.0	0	0.0

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

Jarries & Borrow Pits - User Input (cont.)	1	Gra	ding			over		th Media	1	, lift or dump categ			Revegetati	on			
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 Flee (select)
Borrow area	1.2	Alluvium	Med	No	Alluvium	Small Truck	Alluvium	Small Truck	User Mix 2	User Mix 2	None	None	None	None	Yes	Yes	Med Dozer

Qua	rries & Borrow Pits - User Input (cont.)															
									Excavate or							
	Facility Description		Hi	ghwall Berms			Berm Co	nstruction	Doze	-	Hauling (if seled		<b>1</b> )		Revegetatio	n
	Description	Berm (or Highwall)	Berm	Berm Base	Berm Sideslope	Volume (if calculated	Construction	Berm Material	Berm Construction	Berm Hauling	Distance to Borrow	Slope to Borrow	Maximum			
	(required)	Length	Height	Width	Angle	elsewhere)	Method		Equipment Fleet		Source	Source	Fleet Size	Seed Mix	Mulch	Fertilizer
		ft	ft	ft	_H:1V	cy	(select)	(select)	(select)	(select)	ft	% grade	(user override)	(select)	(select)	(select)
1	Borrow area						Dozer	Alluvium	Small							

#### **Closure Cost Estimate** Quarries & Borrow Pits

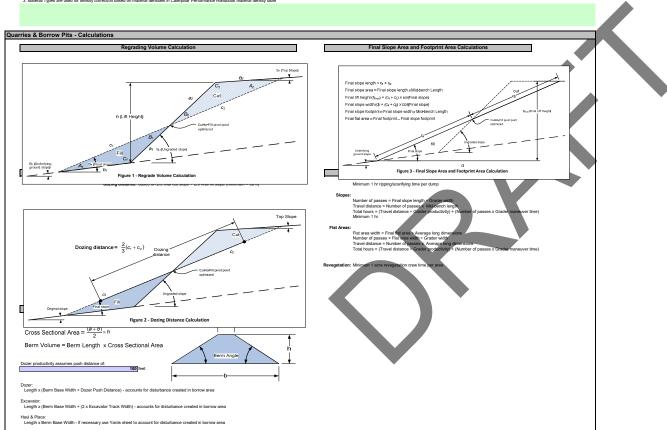
### Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Project Name: CHMMP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xism Model Version: Version 1.4.1

Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### _

Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	lotais
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$457	\$927	N/A	\$1,384
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$71	\$233	N/A	\$304
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$528	\$1,160	\$0	\$1,688
Revegetation Cost	\$139	\$49	\$241	\$429
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$139	\$49	\$241	\$429
TOTALS	\$667	\$1,209	\$241	\$2,117

Note: 1. Al Physical parameters must be input even if manual overrides for volume or area are used. 2. If Stope from facility to borrow source is -20, downful travel time may be underestimated due to limitation of uphil travel time curves and downhill speed tables from CAT Handbook (see Productive) Shest) 3. Material Types are used for density conclusional bandias in Catality Territoriano Handbook material density table



	Labor	Equipment	Materials	lotais
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$457	\$927	N/A	\$1,384
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$71	\$233	N/A	\$304
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$528	\$1,160	\$0	\$1,688
Revegetation Cost	\$139	\$49	\$241	\$429
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$139	\$49	\$241	\$429
TOTALS	\$667	\$1,209	\$241	\$2,117

Quarries & Borrow Pits - Regrading Costs

1 Borrow area

Produ	ctivity = Dozer Productivity x Grade Correction :	x Density Co	rrection x Oper	rator (0.75) x Ma	terial x Visi	bility x Job	Efficiency (	(0.83) x (Slo	t/Side-by-Sid	e) x (Altitud	e Deration)					
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cyfhr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cyfhr	Total Dozer Hours	Total Labor Cost S	Total Equipment Cost \$	Total Regrading Cost \$		
1 [	Borrow area	1,000	#VALUE!	D9R	#VALUE!	1.6	1.2	0.79	1.0			\$0 \$0	\$0			
		1,000	1									20	\$0	\$U	L	
Quar	ries & Borrow Pits - Cover and Growth M	edia Costs	1													
1				c	Cover (lower	layer)							Growth Med	lia Placeme	nt	
		_	_		Number of		Cover	Cover					Number of		Total Total	Total
	Description (required)	Cover Volume	Cover Replacement Fleet	Fleet Productivity	Trucks/ Scrapers	Total Fleet Hours	Labor Cost	Equipment Cost	Total Cover Cost	Growth Media Volume	Growth Media Replacement Fleet	Fleet Productivity	Trucks/ Scrapers	Total Fleet Hours	Labor Equipment Cost Cost	Growth Media Cost
		cy		LCY/hr			s	\$	\$	cy		BCY/hr			s s	s
1 8	Borrow area	807	725/966G/D7R	503	2	2	\$457			0						\$0 \$0
		807				2	\$457	\$927	\$1,384		L				\$0	\$0 \$0
	de a Demon Dite - Oeeritein (Demonster															<u> </u>
Juar	ries & Borrow Pits - Scarifying/Revegetat	tion Costs														-
r		r		1	1	-	1	1	1	r		1	1	_		-
				Total		Flat Area	Ripping/	Slope Scarifying/	Flat Area	Scarifying/	Scarifying/ Ripping	Total	Revegetation	Revegetation	Revgetation Total	
															in the second second	
	Description	Slope	Flat	Surface	Final Slope	Long	Scarifying	Ripping	Scarifying/ Ripping Hours	Ripping Labor	Equipment	Scarifying/	Labor	Equipment	Material Revegetation	1

Go To Labor Rates sheet and select Zone for Each Labor Classification

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.)

#### Closure Cost Estimate Foundations & Buildings

#### Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$3,918	\$2,474	N/A	\$6,39
Wall Demolition Cost	\$5,343	\$582	N/A	\$5,92
Slab Demolition	\$572	\$1,356	N/A	\$1,92
Subtotal Demolition	\$9,833	\$4,412	\$0	\$14,24
Cover Placement Cost	\$1,281	\$3,188	N/A	\$4,46
Growth Media Placement Cost	\$856	\$1,908	N/A	\$2,76
Ripping/Scarifying Cost	\$284	\$408	N/A	\$69
Subtotal Earthworks	\$2,421	\$5,504	\$0	\$7,92
Revegetation Cost	\$554	\$198	\$120	\$81
TOTALS	\$12,808	\$10,114	\$120	\$23,04

Go To Labor Rates sheet and select Zone for Each Labor Classification

Build	dings & Foundation - User Input					You must fill in	ALL green cells	s and relevant blu	ue cells in this	section for each	building or facilit	y					
	Facility Description						Physical -	MANDATORY				Fou	ndation Cove	r (1)	Growth M	edia (1) (entire	e footprint)
	Description (required)	ID Code	Туре	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	Lime Silo		Process - Other	30	16	24	12	6	3	30	0.01	60	5,100	3.0			
2	ARD Pumphouse		Site Facilities - Buildings	25	15	20	12	0	0	25	0.20	12	5,280	2.0	6	5,280	2.0
	ARD Storage Shed		Site Facilities - Buildings	10	10	8	6	0	0	10	0.10	12	2,640	2.0	6	2,640	2.0
4	CN Pond Pumphouse		Site Facilities - Buildings	10	10	8	6	0	0	10	0.10	12	2,640	2.0	6	2,640	2.0

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 Productive Shee

Bui	Idings & Foundation - User Input (cont.)			You must fill i	n ALL green cell	s and relevant b	lue cells in this s	section for each	building or faci	llity						
		Const	truction Materials	Slab D	emolition	Fo	oundation Cov	ver		Growth Medi	ia			Revegetation	ı	
	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	Lime Silo	Sm. steel	Conc 6 in (150 mm) thick	Break & bury	Sm Excavator	Alluvium	Scraper Dozer					User Mix 2			Yes	Small Dozer
2	ARD Pumphouse	Sm. steel	Conc 6 in (150 mm) thick	Break & bury	Sm Excavator	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None	Yes	Small Dozer
3			Conc 6 in (150 mm) thick				Small Truck			Small Truck		User Mix 2	None	None	Yes	Small Dozer
4	CN Pond Pumphouse	Sm. wood	Conc 6 in (150 mm) thick	Break & bury	Sm Excavator	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None	Yes	Small Dozer

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

#### Closure Cost Estimate Foundations & Buildings

Go To Labor Rates sheet and select Zone for Each Labor Classification

#### Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Puildings & Foundation Domalition Cost Summary

	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$3,918	\$2,474	N/A	\$6,392
Wall Demolition Cost	\$5,343	\$582	N/A	\$5,925
Slab Demolition	\$572	\$1,356	N/A	\$1,928
Subtotal Demolition	\$9,833	\$4,412	\$0	\$14,245
Cover Placement Cost	\$1,281	\$3,188	N/A	\$4,469
Growth Media Placement Cost	\$856	\$1,908	N/A	\$2,764
Ripping/Scarifying Cost	\$284	\$408	N/A	\$692
Subtotal Earthworks	\$2,421	\$5,504	\$0	\$7,925
Revegetation Cost	\$554	\$198	\$120	\$872
TOTALS	\$12,808	\$10,114	\$120	\$23,042

#### Buildings & Foundation - Calculations

#### Closure Cost Estimate Foundations & Buildings

#### Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Buildings & Foundation Demolition Cost Summary

	Labor	Equipment	Materials	Totals
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Ripping/Scarifying Cost	\$284	\$408	N/A	\$692
Subtotal Earthworks	\$2,421	\$5,504	\$0	\$7,925
Revegetation Cost	\$554	\$198	\$120	\$872
TOTALS	\$12,808	\$10,114	\$120	\$23,042

Go To Labor Rates sheet and select Zone for Each Labor Classification

Building	&	Foundation	Demolition	Costs
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#### Uses RS Means Heavy Construction Cost Data for building and wall demolition cost calculations. Uses CAT Handbook for slab breaking production.

								Bui	Iding Demoli	tion	v	all Demolition	1	S	lab Demolitio	n		Total Costs	
	Description (required)	Building Footprint (slab area)	Building Volume	Wall Length	Wall Area so ft	Slab Demolition Fleet	Slab Volume	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	Lime Silo	480	11,520	92	276	325C	18	\$2,189	\$1,382	\$3,571	\$5,343	\$582	\$5,925	\$143	\$339	\$482	\$7,675	\$2,303	\$9,978
2	ARD Pumphouse	375	7,500	80	0	325C	14	\$1,425	\$900	\$2,325	\$0	\$0	\$0	\$143	\$339	\$482	\$1,568	\$1,239	\$2,807
	ARD Storage Shed	100	800	40	0	325C	2	\$152	\$96	\$248	\$0	\$0	\$0	\$143	\$339		\$295	\$435	\$730
4	CN Pond Pumphouse	100	800	40	0	325C	2	\$152	\$96	\$248	\$0	\$0	\$0	\$143	\$339		\$295	\$435	\$730
			20,620				36	\$3,918	\$2,474	\$6,392	\$5,343	\$582	\$5,925	\$572	\$1,356	\$1,928	\$9,833	\$4,412	\$14,245

#### Building & Foundation - Foundation Cover and Growth Media Costs

				Foundation Co	over							Growth	Media				Total Cove	r & Growth M	ledia Costs
Description (required)	Cover Volume	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 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 Lime Silo	89	631G/D10R/D7R	1,148	4	1	\$425	\$1,280	\$1,705						\$0	\$0	\$0	\$425	\$1,280	\$1,705
2 ARD Pumphouse	14	725/966G/D7R	445	4	1	\$314	\$722	\$1,036	161	725/966G/D7R	445	4	1	\$314	\$722	\$1,036	\$628	\$1,444	\$2,072
3 ARD Storage Shed	4	725/966G/D7R	448	3	1	\$271	\$593	\$864	81	725/966G/D7R	448	3	1	\$271	\$593	\$864	\$542	\$1,186	\$1,728
4 CN Pond Pumphouse	4	725/966G/D7R	448	3	1	\$271	\$593	\$864	81	725/966G/D7R	448	3	1	\$271	\$593	\$864	\$542	\$1,186	\$1,728
	111				4	\$1,281	\$3,188	\$4,469	323				3	\$856	\$1,908	\$2,764	\$2,137	\$5,096	\$7,233

#### Building & Foundation - Scarifying/Revegetation Costs

				Sca	arifying/Rippi	ng		Reveg	getation		Total Scarify & Revegation Costs			
Description (required)	Flat Area acres	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs S	Scarifying/ Ripping Equipment Cost S	Total Scarifying/ Ripping Costs S	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost \$	Total Revegetation Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Costs \$
1 Lime Silo	0.10	D7R	1	\$71	\$102	\$173	\$139	\$49	\$24	\$212	\$210	\$151	\$24	\$385
2 ARD Pumphouse	0.20	D7R	1	\$71	\$102	\$173	\$139	\$49	\$48	\$236	\$210	\$151	\$48	\$409
3 ARD Storage Shed	0.10	D7R	1	\$71	\$102	\$173	\$139	\$49	\$24	\$212	\$210	\$151	\$24	\$385
4 CN Pond Pumphouse	0.10	D7R	1	\$71	\$102	\$173	\$139		\$24	\$212	\$210	\$151	\$24	\$385
	0.50		4	\$284	\$408	\$692	\$554	\$198	\$120	\$872	\$838	\$606	\$120	\$1,564

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada								
Other Demoltion and Equipment Removal - Cost Summary	Labor	Equipment	Materials	Totals		Go To Labor Rat	es sheet and sel	ect Zone for Each La
Other Demolition	Labor		waterials \$0	so so				
Equipment Removal	\$17,974		\$0	\$25,610				
TOTAL			\$0	\$25,610				
Other Demolition								
Facility Description								
Description (required)	ID Code	Туре	Quantity	Units	Labor Unit Cost \$	Equipment Unit Cost \$	Material Unit Cost \$	Total Cost \$
					\$0	\$0	\$0	
Notes:								
Equipment & Material Removal								
Facility Description								
Description (required)	ID Code	Туре	Quantity	Units	Labor Unit Cost (\$)	Equipment Unit Cost (\$)	Material Unit Cost (\$)	Total Cost (\$)
1 Air compressors		Site Facilities - Mobile/Fixed Equipr	31	hrs	\$289.90	\$123.16		\$12,805
2 Weather Station		Site Facilities - Structures	31	hrs	\$289.90 \$17,974	\$123.16 \$7,636	\$0	\$12,805 \$25,610
			Ť		\$11,014	\$1,000	ţu	\$20,010
Notes: 4 laborers, 1 crane operator, 1 truck driver; 1 flatbed truck, 1 50-ton crane								

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#### **Closure Cost Estimate Process Ponds**

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Basis: Northern Nevada Cost Estimate Type: Surety

#### Process Ponds - Cost Summary

	Labor	Equipment	Materials	lotals
Backfilling Costs	\$10,958	\$22,246	N/A	\$33,204
Growth Media Placement Costs	\$5,420	\$11,853	N/A	\$17,273
Liner Cutting & Folding Costs	\$6,688	\$2,872	N/A	\$9,560
Subtotal Earthworks	\$23,066	\$36,971	\$0	\$60,037
Revegetation Costs	\$1,112	\$392	\$844	\$2,348
TOTALS	\$24,178	\$37,363	\$844	\$62,385

Go To Labor Rates sheet and select Zone for Each Labor Classification

Process Pond	ls - User Input			You must fill i	n ALL green c	ells and releva	nt blue cells in	this section fo	r each pond					
	Facility Description			Pond	Dimensions	(1)		Ba	ackfill - (lf tr	ucks are use	d) (1)	Growth Media		
	Description (required)	ID Code	Pond Length ft	Pond Width ft	Pond Depth ft	Pond Sideslope Angle H:1V	Disturbed Area (if calculated elsewhere) acres	Percent Backfill (100% if blank)	Distance from Backfill Borrow ft	Slope from Facility to Borrow Area % grade	Pond Volume (if calculated elsewhere) cy	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
1 WRF Pond #	t1 (kevstone)		175	85	5.0	2.5			150	2%	,	18	2.640	2%
	2 (Ahead of Lime treatment)		165	135	5.0	2.5			150	2%		18	2,640	2%
3 Pond Acros	s from Office (Larger)		165	100	3.0	2.5			150	2%		18	2,640	2%
4 Pond Acros	s from Office (Smaller)		100	100	3.0	2.5			150	2%		18	2,640	2%
5 ARD Collect	ion Pond A		180	102	5.0	2.5			150	2%		18	2,640	2%
6 ARD Collect	ion Pond B		182	130	5.0	2.5			150	2%		18	2,640	2%
	D Evap Pond A		238	92	5.0	2.5			150	2%		18	2,640	2%
8 Treated ARE	) Evap Pond B		304	99	5.0	2.5			150	2%		18	2,640	2%

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 m CAT Handbook (see Productivty Sheet)

Ponds 1-8 will be partially backfilled with local material will be daylighted to drain stormwater.

#### Process Ponds - User Input (cont.)

		Liner		Backfill		C C	Growth Medi	а		Revegetati	on
	Description (required)	Crew Cut & Fold Time ⁽²⁾ hrs	Backfill Material Type (select)	Backfill 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)
1	WRF Pond #1 (keystone)	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
2	WRF Pond #2 (Ahead of Lime treatment)	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
3	Pond Across from Office (Larger)	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
4	Pond Across from Office (Smaller)	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
5	ARD Collection Pond A	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
6	ARD Collection Pond B	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
7	Treated ARD Evap Pond A	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None
8	Treated ARD Evap Pond B	5.0	Alluvium	Small Truck		Alluvium	Small Truck		User Mix 2	None	None

Notes:

Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table
 Pond liner removal crew (2Clab + excavator) = 2 General Laborers + 325C Excavator

#### Closure Cost Estimate Process Ponds

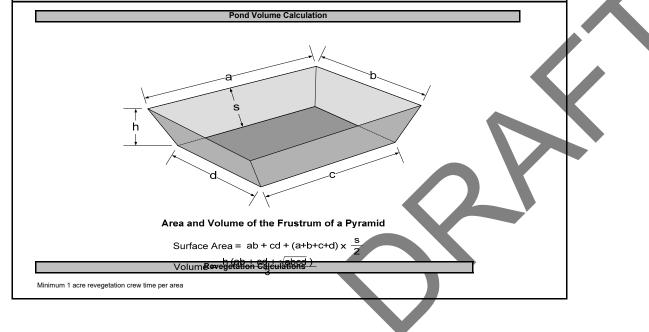
Go To Labor Rates sheet and select Zone for Each Labor Classification

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Process Ponds - Cost Summary

	Labor	Equipment	Materials	lotals
Backfilling Costs	\$10,958	\$22,246	N/A	\$33,204
Growth Media Placement Costs	\$5,420	\$11,853	N/A	\$17,273
Liner Cutting & Folding Costs	\$6,688	\$2,872	N/A	\$9,560
Subtotal Earthworks	\$23,066	\$36,971	\$0	\$60,037
Revegetation Costs	\$1,112	\$392	\$844	\$2,348
TOTALS	\$24,178	\$37,363	\$844	\$62,385

#### Process Ponds - Calculations



#### Closure Cost Estimate Process Ponds

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Process Ponds - Cost Summary

	Labor	Equipment	Materials	lotals
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Liner Cutting & Folding Costs	\$6,688	\$2,872	N/A	\$9,560
Subtotal Earthworks	\$23,066	\$36,971	\$0	\$60,037
Revegetation Costs	\$1,112	\$392	\$844	\$2,348
TOTALS	\$24,178	\$37,363	\$844	\$62,385

#### **Process Ponds - Liner Cutting and Folding**

	Description (required)	Crew Hours hrs	Total Labor Cost \$	Total Equipment Cost \$	Total Liner Removal Cost \$
1	WRF Pond #1 (keystone)	5	\$836	\$359	\$1,195
2	WRF Pond #2 (Ahead of Lime treatment)	5	\$836	\$359	\$1,19
3	Pond Across from Office (Larger)	5	\$836	\$359	\$1,195
4	Pond Across from Office (Smaller)	5	\$836	\$359	\$1,195
5	ARD Collection Pond A	5	\$836	\$359	\$1,195
6	ARD Collection Pond B	5	\$836	\$359	\$1,195
7	Treated ARD Evap Pond A	5	\$836	\$359	\$1,195
8	Treated ARD Evap Pond B	5	\$836	\$359	\$1,195
		40	\$6.688	\$2.872	\$9,560

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Proc	Process Ponds - Backfill and Growth Media Costs																
					Pond Ba	ackfill							Growth	Media			
	Description (required)	Backfill Volume cy	Backfill Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours hrs	Total Labor Cost \$	Total Equipment Cost \$	Total Backfill Cost \$	Growth Media Volume cy	Growth Media Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	WRF Pond #1 (keystone)	2,188	725/966G/D7R	476	2	5	\$1,141	\$2,317	\$3,458	826	725/966G/D7R	461	3	2	\$542	\$1,185	\$1,727
2	WRF Pond #2 (Ahead of Lime treatment)	3,469	725/966G/D7R	476	2	7	\$1,598	\$3,244	\$4,842	1,238	725/966G/D7R	461	3	3	\$813	\$1,778	\$2,591
3	Pond Across from Office (Larger)	1,621	725/966G/D7R	476	2	3	\$685	\$1,390	\$2,075	917	725/966G/D7R	461	3	2	\$542	\$1,185	\$1,727
4	Pond Across from Office (Smaller)	953	725/966G/D7R	476	2	2	\$457	\$927	\$1,384	556	725/966G/D7R	461	3	1	\$271	\$593	\$864
5	ARD Collection Pond A	2,784	725/966G/D7R	476	2	6	\$1,370	\$2,781	\$4,151	1,020	725/966G/D7R	461	3	2	\$542	\$1,185	\$1,727
6	ARD Collection Pond B	3,697	725/966G/D7R	476	2	8	\$1,826	\$3,708	\$5,534	1,314	725/966G/D7R	461	3	3	\$813	\$1,778	\$2,591
7	Treated ARD Evap Pond A	3,324	725/966G/D7R	476	2	7	\$1,598	\$3,244	\$4,842	1,216	725/966G/D7R	461	3	3	\$813	\$1,778	\$2,591
8	Treated ARD Evap Pond B	4,671	725/966G/D7R	476	2	10	\$2,283	\$4,635	\$6,918	1,672	725/966G/D7R	461	3	4	\$1,084	\$2,371	\$3,455
-		22,707				48	\$10,958	\$22,246	\$33,204	8,759				20	\$5,420	\$11,853	\$17,273

Proc	Process Ponds - Revegetation Costs													
	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost \$	Total Revegetation Cost \$								
1	WRF Pond #1 (keystone)	0.30	\$139	\$49	\$72	\$260								
2	WRF Pond #2 (Ahead of Lime treatment)	0.50	\$139	\$49	\$121	\$309								
3	Pond Across from Office (Larger)	0.40	\$139	\$49	\$96	\$284								
4	Pond Across from Office (Smaller)	0.20	\$139	\$49	\$48	\$236								
5	ARD Collection Pond A	0.40	\$139	\$49	\$96	\$284								
6	ARD Collection Pond B	0.50	\$139	\$49	\$121	\$309								
7	Treated ARD Evap Pond A	0.50	\$139	\$49	\$121	\$309								
8	Treated ARD Evap Pond B	0.70	\$139	\$49	\$169	\$357								
		3.50	\$1,112	\$392	\$844	\$2,348								

#### Go To Labor Rates sheet and select Zone for Each Labor Classification



Go To Labor Rates sheet and select Zone for Each Labor Classification

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

ds, Etc Cost Summary				
	Labor	Equipment	Materials	lotals
Regrading Cost	\$0	\$0	N/A	\$1
Cover Placement Cost	\$0	\$0	N/A	\$
Growth Media Placement Cost	\$2,525	\$5,593	N/A	\$8,11
Ripping/Scarifying Cost	\$355	\$510	N/A	\$86
Subtotal Earthworks	\$2,880	\$6,103		\$8,98
Revegetation Cost	\$764	\$270	\$1,086	\$2,12
TOTALS	\$3,644	\$6,373	\$1,086	\$11,10

Yard	ds, Etc User Input			You must fill in ALL green cells and relevant blue cells in this section for each building or facility									
	Facility Description				Physical			Cover			Growth Media		
	Description (required)	ID Code	Туре	Area acres	Average Flat Area Long Dimension (ripping distance) ft	Regrade Volume (calculated elsewhere) cy	Cover Thickness in	Distance from 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	ARD Treatment Area		Other Facilities	0.50	300					6	2,640	2.0	
2	ARD Treatment Area		Other Facilities	0.50	300					6	2,640	2.0	
3	Lime Treatment area		Other Facilities	1.50	500					6	2,640	2.0	
	Evaporation Pond area		Other Facilities	1.00	400					6	2,640	2.0	
5	RO Pond area		Other Facilities	1.00	700					6	5,280	2.0	

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 tivty Sheet)

Yard	ds, Etc User Input (cont.)		You must fill in A	LL green cells a	nd relevant blu	e cells in this s	ection for each	n building or fa	cility						
			Grading			Cover			Growth Medi	a		R	evegetation		
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarify/ Rip? (select)	Ripping Fleet (select)
1	ARD Treatment Area	1	LS - broken	Small				Alluvium	Small Truck		User Mix 2			Yes	Small Dozer
2	ARD Treatment Area	1	LS - broken	Small				Alluvium	Small Truck		User Mix 2			Yes	Small Dozer
3	Lime Treatment area	1	LS - broken	Small				Alluvium	Small Truck		User Mix 2			Yes	Small Dozer
	Evaporation Pond area	1	LS - broken	Small					Small Truck		User Mix 2			Yes	Small Dozer
5	RO Pond area	1	LS - broken	Small				Alluvium	Small Truck		User Mix 2			Yes	Small Dozer

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

#### Closure Cost Estimate Yards, Etc.

ds, Etc Cost Summary					Go To Labor Rates sheet and select Zone for Each Labor Classificat
• • • • • • • • • • • • • • • • • • •	Labor	Equipment	Materials	lotals	
Regrading Cost	\$0	\$0	N/A	\$0	
Cover Placement Cost	\$0	\$0		\$0	
Growth Media Placement Cost	\$2,525	\$5,593	N/A	\$8,118	
Ripping/Scarifying Cost	\$355	\$510		\$865	
Subtotal Earthworks	\$2,880	\$6,103		\$8,983	
Revegetation Cost	\$764	\$270		\$2,120	
TOTALS	\$3,644	\$6,373	\$1,086	\$11,103	
ds, Etc Calculations					
	Grading	Calculations			
Average push distance assumed to be 2/3 of the 600 feet maxir	num from Caten	illar Handbook or 4	00 feet		
Material assumed to be loose stockile (1.2 productivity factor)	num nom Gatep		oo leel		
Slope assumed to be 0 to 5% (1.0 productivity factor)					
	Cover Volu	me Calculation			
Yard area x cover thickness					
R	ipping/Scarif	ying Calculatio	ns		
Travel distance = Number of passes x Average long dimension Total hours = (Travel distance + Grader productivity) + (Number Minimum 1 hr ripping/scarifying per area	s · of passes x Gra	ader maneuver time	)		
	Reve	getation			
Minimum 1 acre revegetation crew time per area					
-					
				•	

Go To Labor Rates sheet and select Zone for Each Labor Classification

	Labor	Equipment	Materials	lotals
Regrading Cost	\$0	\$0	N/A	\$(
Cover Placement Cost	\$0	\$0	N/A	\$1
Growth Media Placement Cost	\$2,525	\$5,593	N/A	\$8,11
Ripping/Scarifying Cost	\$355	\$510	N/A	\$86
Subtotal Earthworks	\$2,880	\$6,103		\$8,98
Revegetation Cost	\$764	\$270	\$1,086	\$2,12
TOTALS	\$3,644	\$6,373	\$1,086	\$11,10

Yard	ls, Etc Regrading Costs												
Prod	uctivity = Dozer Productivity x Grade Correction x	Density Cor	rection x Operat	tor (0.75) x M	laterial x Visi	bility x Job I	Efficiency (0.8	3) x (Slot/Si	de-by-Side)				
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	ARD Treatment Area			D7R							\$0	\$0	\$0
2	ARD Treatment Area			D7R							\$0	\$0	\$0
3	Lime Treatment area			D7R							\$0	\$0	\$0
4	Evaporation Pond area			D7R							\$0	\$0	\$0
5	RO Pond area			D7R							\$0	\$0	\$0
											\$0	\$0	\$0

Yare	ards, Etc Cover and Growth Media Costs																
	Cover Growth Media																
	Description (required)	Cover Volume cy	Topsoil 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 Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	ARD Treatment Area						\$0	\$0	\$0	403	725/966G/D7R	448	3	1	\$271	\$593	\$864
2	ARD Treatment Area						\$0	\$0	\$0	403	725/966G/D7R	448	3	1	\$271	\$593	\$864
3	Lime Treatment area						\$0	\$0	\$0	1,210	725/966G/D7R	448	3	3	\$813	\$1,778	\$2,591
4	Evaporation Pond area						\$0	\$0	\$0	807	725/966G/D7R	448	3	2	\$542	\$1,185	\$1,727
5	RO Pond area						\$0	\$0	\$0	807	725/966G/D7R	445	4	2	\$628		
							\$0	\$0	\$0	3,630				9	\$2,525	\$5,593	\$8,118
													_				

Yard	ds, Etc Scarifying/Revegetation Costs											
	Description (required)	Surface Area acres	Area Long Dimension ft	Ripping/ Scàrifying 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 \$
1	ARD Treatment Area	0.50	300	D7R	1	\$71	\$102	\$173	\$139	\$49	\$121	\$309
2	ARD Treatment Area	0.50	300	D7R	1	\$71	\$102	\$173	\$139	\$49	\$121	\$309
3	Lime Treatment area	1.50	500	D7R	1	\$71	\$102	\$173	\$208	\$74	\$362	\$644
	Evaporation Pond area	1.00	400	D7R	1	\$71	\$102			\$49		\$429
5	RO Pond area	1.00	700	D7R	1	\$71	\$102	\$173	\$139	\$49	\$241	\$429
		4.50			5	\$355	\$510	\$865	\$764	\$270	\$1,086	\$2,120

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

	Labor	Equipment	Fees	lotals
Solid Waste - On Site	\$5,349	\$14,802	N/A	\$20,15 ⁻
Solid Waste - Off Site				\$
Hazardous Materials				\$
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$
TOTALS	\$5,349	\$14,802	\$0	\$20,15

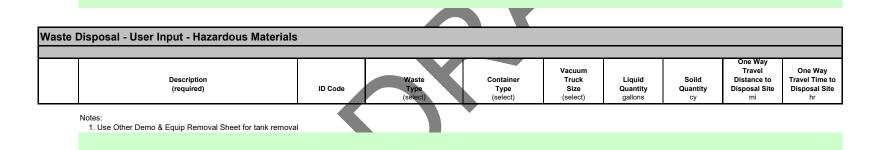
Go To Labor Rates sheet and select Zone for Each Labor Classification

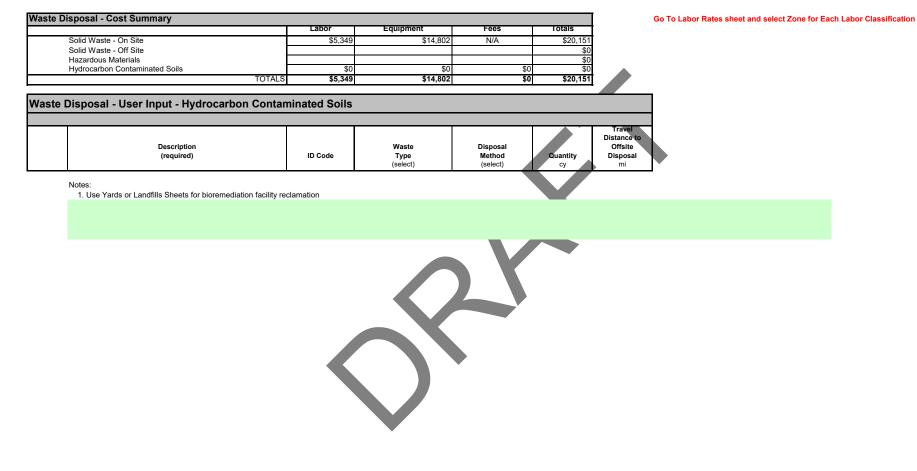
Waste I	Disposal - User Input - Solid Waste								
						Land	fill (Bulk) Dis	posal	Dumpster
	Description (required)	ID Code	Waste Type (select)	Disposal Method (select)	Quantity cy	Distance to Landfill ft	Slope to Landfill % grade	Number of Trucks (user override)	Months Dumpster Rental months
1	Pond liner haul to landfill		Process - Other	Landfill (bulk)	25	264000	2.0		1
2	Building Disposal		Other Facilities	Landfill (bulk)	100	264000	2.0		2

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)





Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

		Labor	Equipment	Fees	lotais
Solid Waste - On Site		\$5,349	\$14,802	N/A	\$20,151
Solid Waste - Off Site					\$(
Hazardous Materials					\$0
Hydrocarbon Contaminated Soils		\$0	\$0	\$0	\$(
	TOTALS	\$5,349	\$14,802	\$0	\$20,151

#### Waste Disposal - Assumptions & Calculations

#### Solid Waste Disposal

Off site disposal assumes use of average rolloff dumpster [30 cy (m3), 10 ton (tonne)] On site disposal assumes use of small loader/truck fleet for haulage Average density for on site disposal = 2,600 lb/cy (1,540 kg/m3) For on site disposal only 1 truck is required unless total truck hours > 8, only 2 trucks unless total truck hours are > 16

#### Hazardous Materials Disposal

Assumes all hazardous materials are known Enter EITHER solid or liquid quantity each line. If container type = 55 gallon (200 liter) drum then solid waste hauling costs apply Average density for solids assumed to be 2,600 lb/cy (1,540 kg/m3) Vacuum truck sizes: small = 2,200 gal (~8,300 litres), large = 5,000 gal (~19,000 litres) Vacuum truck on site for 4 hours for each load

#### Hydrocarbon Contaminated Soils Disposal

Assumes all hazardous materials are known On site disposal assumes biopad treatment Exavation productivity =45 cy./hr (35 m3/hr) (Means Heavy Construction, 2006: 02315-424-0360)

#### Go To Labor Rates sheet and select Zone for Each Labor Classification

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

	Labor	Equipment	Fees	lotais
Solid Waste - On Site	\$5,349	\$14,802	N/A	\$20,15 ⁻
Solid Waste - Off Site				\$(
Hazardous Materials				\$
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$1
TOTALS	\$5,349	\$14.802	\$0	\$20,15 [,]

Go To Labor Rates sheet and select Zone for Each Labor Classification

	Description (required)	Waste Volume cy	Number of Off Site Dumpster Loads	Landfill Fleet Equipment	Landfill Fleet Productivity LCY/hr	Number of Trucks	Total Fleet Hours	Total Dumpster Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Waste Disposal Cost \$
1	Pond liner haul to landfill	25		725/966G/D7R	5	1	5	\$0	\$927	\$1,671	\$2,598
2	Building Disposal	100		725/966G/D7R	500	100	1	\$0	\$4,422	\$13,131	\$17,553
		125					6	\$0	\$5,349	\$14,802	\$20,151
							<u>n</u>				

Waste Disposal - Hazardous Materials Disposal								
Description (required)	Liquid Waste Volume gallons	Solid Waste Volume çy	Number of Truck Loads	Tons of Waste Tons	Pick-up Fees \$	Transport Fees \$	Disposal Fees \$	Total Hazardous Material Cost \$
					\$0	\$0	\$0	\$

Waste D	Disposal - Hydrocarbon Contaminated Soils	\$								
	Description (required)	Quantity	Disposal Equipment Fleet	Total Fleet Hours	Treatment Cost	Transport Fees ¢	Disposal Fees	Total Labor Cost	Total Equipment Cost ⊄	Total Waste Disposal Cost
					÷ \$0	\$0	\$0	\$0	÷ \$0	÷ \$0

**Closure Cost Estimate** Well Abandonment

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Well Abandonment

Go To Labor Rates sheet and select Zone for Each Labor Classification

	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$35,676	\$63,789	\$1,319	\$100,784
Monitoring Wells	\$30,943	\$42,977	\$4,782	\$78,702
TOTALS	\$66,619	\$106,766	\$6,101	\$179,486

Production, Dewatering and Infile	uction, Dewatering and Infiltration Well Closure																									
Description (required)	ID Code	Number of Holes	Casing Diam in	Average Depth ⁽¹⁾ ft bgs	Depth to First Water ft bgs	Original Static Water Level ft bgs	Slotted	Blank Casing Below Top of Screen ⁽²⁾ ft	Type of Pump (if any) (select)	Depth to Pump ft bgs	Hole Plug Method (select)	Casing Volume per ft cf	Perforation Length ^(3,4) ft	Grout Volume per Hole ^(4,5) cy	Cement Volume per Hole ⁽⁶⁾ cy	Inert Media Volume per Hole ⁽⁷⁾ cy	Pump Removal Labor Cost \$	Pump Removal Equip Cost \$	Perf Labor Cost \$	Perf Equip Cost ⁽⁸⁾ \$	Grout + Cement Labor Cost ⁽⁹⁾ \$	Grout + Cement Equip Cost ⁽⁹⁾ \$	Grout + Cement Material Cost \$	Inert Media Labor Cost ⁽¹⁰⁾ \$	Inert Media Equip Cost ⁽⁹⁾ \$	Total Cost \$
1 Guest House Well		1	6.0	280	150	150	150	0	Submersi	t 250	Grout + B	a 0.200	50	2.70	0.10	0.40	\$2,430	\$5,705	\$500	\$833	\$601	\$849	\$123	\$359	\$95	\$11,494
2 Production Wells		2	6.0	622	322	322	470	0	Submersi	t 250	Grout + B	a 0.200	198	5.20	0.10	1.60	\$4,860		\$1,768	\$3,491	\$1,401	\$1,982	\$466	\$109	\$29	\$25,516
3 Recovery Wells		10	8.0	115	110	90	100	0	Submersi	t 100	Grout + B	a 0.350	40	1.40	0.30	0.10	\$9,720	\$22,820	\$5,004	\$8,078	\$5,338	\$7,550	\$730	\$3,587	\$947	\$63,774
																	\$17,010	\$39,935	\$7,272	\$12,402	\$7,340	\$10,381	\$1,319	\$4,054	\$1,071	\$100,784

(1) For previously abandoned holes enter "0" for depth

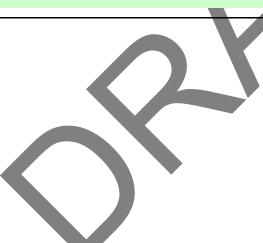
(1) For previously abandoned holes enter "U" for depth
 (2) Wells abandoned per Nevada Administrative Code (NAC 534.420). Hole grouted and perforated from bottom to 50 feet (15.24m) above the top of the screen, or first water encountered or original static water level, depending on vertical hydraulic gradient and well c
 (3) Perforation length = amount of blank casing below first water (for confined aquifers) or predicted recovered water table (unconfined aquifers) + 50 feet (15.24m) of blank casing above water table
 (4) Assumes 50' (15.24m) sanitary seal at top of hole. Therefore, perforation and grouting only required to bottom of sanitary seal.
 (5) Assumes 100% loss to formation for grout (abandonite) for screened and perforated sections.
 (6) Assumes 20' (6m) to previde the screened and perforated sections.

(6) Assumes 20' (6m) top seal of cement in casing only. See note 4.

(7) Inert material is cuttings or alluvium sourced locally.

(8) Includes perforation tool wear cost/ft of perforation (see Productivty Sheet).
(9) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup. If no perforation required, use standard drill rig.
(10) See Productivity Sheet for hourly production. Minimum 1 hr per hole.

Notes



ruction parameters. Inert media (cuttings or alluvium) used from top of grout to top seal.

**Closure Cost Estimate** Well Abandonment

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Well Abandonment

Go To Labor Rates sheet and select Zone for Each Labor Classification

	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$35,676	\$63,789	\$1,319	\$100,784
Monitoring Wells	\$30,943	\$42,977	\$4,782	\$78,702
TOTALS	\$66,619	\$106,766	\$6,101	\$179,486

M	oni	toring	Well C	losure
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mo																			
	Description (required)	ID Code	Number of Holes	Casing Diam in	Average Depth ft bgs	Top of Screen ⁽¹⁾ ft bgs	Hole Plug Method (select)	Casing Volume per ft ft3	Grout Volume/ Well ^(2,3) cy	Cement Volume per Hole ⁽⁴⁾ cy	Inert Backfill Volume per Hole ⁽⁵⁾ cy	Total Grouting Hours/ Hole hr	Total Inert Media Hours/ Hole hr	Grout + Cement Labor Cost ⁽⁶⁾ \$	Grout + Cement Equip Cost ⁽⁶⁾ \$	Grout + Cement Material Cost \$	Inert Material Labor Cost ⁽⁷⁾ \$	Inert Material Equip Cost ⁽⁷⁾ \$	Total Cost \$
1	Residue Pile Active 2021		6	8.0	150		Grout + Ba	0.350	2.11	0.32		3.3		\$3,303	\$4,587	\$630	\$0	\$0	\$8,520
2	Residue Pile Inactive 2021		14	8.0	150		Grout + Ba	0.350	2.11	0.32		3.3		\$7,707	\$10,704	\$1,471	\$0	\$0	\$19,882
3	Residue Pile Active 2121		3	8.0	270		Grout + Ba	0.350	4.05	0.32		3.5		\$1,752	\$2,433	\$572	\$0	\$0	\$4,757
4	WRF Active 2021		1	8.0	15		Grout + Ba	0.350	-0.08	0.32		3.0		\$500	\$695	\$9	\$0	\$0	\$1,204
5	WRF Inactive 2021		4	8.0	98		Grout + Ba	0.350	1.26	0.32		3.2		\$2,135	\$2,966	\$270	\$0	\$0	\$5,371
6	WRF Active 2121		27	8.0	82		Grout + Ba	0.350	1.00	0.32		3.2		\$14,412	\$20,017	\$1,516	\$0	\$0	\$35,945
7	WRF Inactive 2121		2	8.0	223		Grout + Ba	0.350	3.29	0.32		3.4		\$1,134	\$1,575	\$314	\$0	\$0	\$3,023
-														\$30,943	\$42,977	\$4,782	\$0	\$0	\$78,702

Wells abandoned per NAC 534.420 with bentonite grout placed to 50 feet above the top of the screen (see note 1).
(1) Assumes top of screen is at or above the static water level (in unconfined aquifers) or the depth of first water encountered (in confined aquifers).
(2) Assumes 25% loss to formation for grouting
(3) Grouting only required to 50' (15.24m) above the top of screen because monitor wells are constructed with a seal in the annular space.
(4) Assumes top 20' (6m) plugged with cement.
(5) Assumes hole plugged with inert material (cuttings or alluvium) above grout up to cement surface plug.
(6) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup (see Productivity Sheet).
(7) See Productivity Sheet for hourly production. Minimum 1 hr per hole.



Closure Cost Estimate Well Abandonment

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Well Abandonment

Go To Labor Rates sheet and select Zone for Each Labor Classification

	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$35,676	\$63,789	\$1,319	\$100,784
Monitoring Wells	\$30,943	\$42,977	\$4,782	\$78,702
TOTALS	\$66,619	\$106,766	\$6,101	\$179,486

Well Construction Monitor Well Production or Dewatering Well Well Head Protection Well Head Protection Casing (50' (15.24m) sanibry seal Well Caeing - Well Casing Original Static Water Level V First Water Enc. (if confined)  $\nabla$ - Gravel Park Original Static Water Level ▼ Well Scree Сар Сар Grouted overdrill Grouted overdrill (if any) (if any)

-		Labor	Equipment	Materials	Totals
Fence Removal		\$17,390	\$5,293	N/A	\$22,68
Fence Installation		\$19,080	\$3,900	\$130,500	\$153,48
Culvert & Buried Pipe Removal		\$0	\$0	N/A	9
Surface Pipe Removal		\$30,200	\$4,700	N/A	\$34,90
Power Lines		\$0	N/A	N/A	:
Substations/Transformers		\$0	N/A	N/A	:
Rip-rap, rock lining, gabions		\$0	\$0	\$0	
Other Costs		\$0	\$0	\$0	3
	TOTALS	\$66,670	\$13,893	\$130,500	\$211,0

Go To Labor Rates sheet and select Zone for Each Labor Classification

ene	ce Removal			You must fill in AL	L green and blue	cells	
					Costs		
	Description (required)	ID Code	Length ft	Type (select type)	Labor Cost §	Equipment Cost \$	Total Cost \$
1	ARD Pond A Fencing		610	Chain link 8-10 ft	\$1,824	\$555	\$2,37
2	ARD Treatment Ponds		1148	Chain link 8-10 ft	\$3,433	\$1,045	\$4,47
3	Residue Pile Ponds		764	Chain link 8-10 ft	\$2,284	\$695	\$2,97
4	ARD Pond B and Lime Treatment Ponds Fencing		1301	Chain link 8-10 ft	\$3,890	\$1,184	\$5,07
5	Brine Ponds		1993	Chain link 8-10 ft	\$5,959	\$1,814	\$7,71
			•		\$17,390	\$5,293	\$22,68

Notes:								
Fonce la	netallation			You must fill in Al	areen and blue	rolls		
Fence li	nstallation		Inpu	You must fill in AL	L green and blue	cells Cost	ts	
Fence I	Description (required)	ID Code	Length ft		L green and blue Labor Cost		ts Material Cost (\$)	Total Cost S

		Labor	Equipment	Materials	Totals
Fence Removal		\$17,390	\$5,293	N/A	\$22,6
Fence Installation		\$19,080	\$3,900	\$130,500	\$153,4
Culvert & Buried Pipe Removal		\$0	\$0	N/A	:
Surface Pipe Removal		\$30,200	\$4,700	N/A	\$34,9
Power Lines		\$0	N/A	N/A	
Substations/Transformers		\$0	N/A	N/A	
Rip-rap, rock lining, gabions		\$0	\$0	\$0	
Other Costs		\$0	\$0	\$0	
	TOTALS	\$66,670	\$13,893	\$130,500	\$211,0

Go To Labor Rates sheet and select Zone for Each Labor Classification

	TOTAL	\$00,070	\$13,053	\$130,500	\$211,063					
Culv	Culvert & Buried Pipe Removal You must fill in ALL green and blue cells									
		Input								
	Description (required)	ID Code	Length ft	Type (select type)	Location (select )	Labor Cost \$	Equipment Cost \$	Total Cost \$		
						\$0	\$0	\$0		

Notes:

Surfa	Surface Pipe Removal You must fill in ALL green and blue cells								
	•			Costs					
	Description (required)	ID Code	Length ft	Type (select type)	Location (select)	Labor Cost \$	Equipment Cost \$	Total Cost \$	
1	Guest House Well Piping		10000	6 in (150 mm) - 8	in (200 mm)	\$30,200	\$4,700	\$34,900	
						\$30,200	\$4,700	\$34,900	

scellaneous Cost Summary					
		Labor	Equipment	Materials	Totals
Fence Removal		\$17,390	\$5,293	N/A	\$22,68
Fence Installation	Γ	\$19,080	\$3,900	\$130,500	\$153,48
Culvert & Buried Pipe Removal		\$0	\$0	N/A	5
Surface Pipe Removal		\$30,200	\$4,700	N/A	\$34,90
Power Lines		\$0	N/A	N/A	
Substations/Transformers		\$0	N/A	N/A	
Rip-rap, rock lining, gabions		\$0	\$0	\$0	9
Other Costs		\$0	\$0	\$0	ş
	TOTALS	\$66,670	\$13,893	\$130,500	\$211,0

Go To Labor Rates sheet and select Zone for Each Labor Classification

Input Description	Costs		Cost Brea	kdown
Description Power Line Power Line Number of			Cost Breakdown	
(required) ID Code Length Type Substations Location	Location Removal Removal (select) \$	Total Cost \$	Labor Cost \$	Equipment Cost \$

Notes: If substation owned by operator, use Other Demo & Equipment Removal sheet User may need to add line items in Foundations & Buildings for substation slab demolition and fence removal Labor/Equipment costs assume approximately 80% of cost are equipment and 20% are labor related costs

Rip-Rap & Rock Lining You must fill in ALL green and blue cells									
	Input Costs				osts				
Description (required)	ID Code	Area S.Y.	Type (select type)	Labor Cost §	Equipment Cost \$	Material Cost \$	Total Cost \$		
				\$0	\$0	\$0	\$0		

#### Closure Cost Estimate Monitoring

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data: File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

Reclamation Monitoring & Mai	ntenance - Cos	t Summary					Go To Labor R	ates sheet and	select Zone for Each Labor Classification
		Labor	Equipment	Lab & Materials	Totals				
Revegetation Maintenance		\$1,640	\$586	\$2,851	\$5,077				
Erosion Maintenance		\$1,404	\$4,213	N/A	\$5,617				
Reclamation Monitoring Subtotal Recl	amation Monitoring	\$55,400 \$58,444	\$702 \$5,501	N/A \$2,851	\$56,102 \$66,796				
Water Quality Monitoring	amation wontoning	\$49,640	\$10,405	\$31,248	\$91,293				
	TAL MONITORING	\$108,084	\$15,906	\$34,099	\$158,089				
						-			
Reclamation Maintenance		1		1					
	Total	% Area		Area					
Description	Revegetation Surface Area (1,2)	Requiring Reseeding	Seed Mix	Requiring Reseeding	Seed	Labor	Equipment	Totals	
Description	acres	Resecting	(select)	acres	\$/acres	\$/acres	\$/acres	\$	
Revegetation Maintenance	12	100%	User Mix 2	11.8	\$241.00	\$138.59	\$49.50		
Labo								\$1,640	
Equipmen Materials								\$586 \$2,851	
Cost/Acre								\$429	
							Subtotal	\$5,077	
Notes	1) Surface area is	NOT the same as	footprint disturba	nce area typicall	y used for permi	itting purposes.			
	Total Volume Growth Media	% Volume Requiring Maintenance	Average Growth Media Placement Cost	Volume Requiring Replacement		Labor (assume: 25%)	Equipment (assume: 75%)	Total	
	cy		\$/CY	cy		\$/acres	\$/acres	\$	
Erosion Maintenance	12,712	20%	\$2.21	2,542		\$1,404.00	\$4,213.00	\$5,617	
Notes									
10.00									
Reclamation Monitoring									
Description	Hrs/Day	Days/Year	Number of Years	Rate \$/hr					
Field Work									
Field Geologist/Engineer				\$149.27				\$0	
Range Scientist	8	1	12	\$129.27				\$12,410	
Reporting	-	-							
Field Geologist/Engineer Range Scientist	8	3	12	\$149.27 \$129.27				\$42,990	
rtango obioritat				\$120.27			Subtotal	\$55,400	
Travel									
	Hrs/Trip	Trips/Year	Years	Truck Cost					
Travel	hr 2	1	12	\$/hr \$29.26				\$702	
Travel	2	1	12	\$29.20			Subtotal	\$702	
						Total Reclamat			
Notes									
140(63									
l									

#### **Closure Cost Estimate** Monitoring

#### Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

#### Reclamation Monitoring & Maintenance - Cost Summary

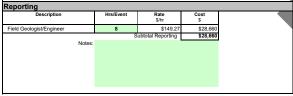
	Labor	Equipment	Materials	Totals
Revegetation Maintenance	\$1,640	\$586	\$2,851	\$5,077
Erosion Maintenance	\$1,404	\$4,213	N/A	\$5,617
Reclamation Monitoring	\$55,400	\$702	N/A	\$56,102
Subtotal Reclamation Monitoring	\$58,444	\$5,501	\$2,851	\$66,796
Water Quality Monitoring	\$49,640	\$10,405	\$31,248	
TOTAL MONITORING	\$108,084	\$15,906	\$34,099	\$158,089

Water and Rock Sample Analysis First Sample Year closure year (1-100) No. of Samplers Εαι Description Samples Events/Year No. Years Days/Event Hrs/Day Analysis Cost Supplies Lab Cost Material Cost Cost Comments \$/sample \$156.30 \$/sample s \$ s LAC Profile 1 8 2 12 1 \$6.45 \$30,010 \$1.23 \$57,112 \$30,010.00 \$1,238.00 \$4,884.48 \$20,979.84 Subtotal Sampling Costs \$57,112

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				
					s				
		Replacement							
Pump (purchased)	10	period (yrs):		2760.425068	\$5,521 \$5.521				
Subtotal Field Work									

Notes: Replacement period = frequency of pump replacement



Go To Labor Rates sheet and select Zone for Each Labor Classification

	Subtotal Reporting	\$20,000	
Notes:			

#### Closure Cost Estimate Constr. Mgmt

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

Construction Management & Road Maintenance - Cost Summary									
	Labor	Equipment	Materials	lotals					
Construction Management	\$31,722	\$8,141	N/A	\$39,863					
Construction Support		\$1,303		\$1,303					
Road Maintenance	\$3,423	\$4,917	\$0	\$8,340					
TOTAL CONSTRUCTION MANAGEMENT	\$35,145	\$14,361	\$0	\$49,506					

Construction Manage	ement						
		Constr	uction Manage	ment Staff			
Description	Duration mo.	Hours/ Month hr.	Number of Supervisors	Supervisor Rate \$/hr	Labor Cost \$	Equipment Cost ⁽¹⁾ \$	Totals \$
Active Reclamation Monitoring & Maintenance	2	160	1	\$99.13	\$31,722 \$0	\$8,141 \$0	\$39,86 \$
	-		-	Total Staff	\$31,722	\$8,141	\$39,86
Construction Manageme Description	Duration	Number of Units		Rental Rate	Generator Cost	Equipment Cost ⁽¹⁾	Totals
Temporary Office Rental Temporary Toilets	mo.	3		\$/mo \$217	\$/mo	\$ \$0 \$1,303	\$ \$ \$1,30
· ·					Total Support	\$1,303	\$1,30
Note	s: Office rental assu	mes only 1 general	tor required for ever	y 4 trailers	Total Construct	ion Management	\$41,16
				· · · ·		3	1 7 -

Road Maintenance	1			Hours/	Labor	Equipment	
Description	Fleet Size	Number	Duration	Month	Cost	Cost	Totals
	(select)		mo.	hr.	\$	\$	\$
Active Reclamation							
Vater Truck	Small	1	2	40	\$3,423	\$4,917	\$8,34
Grader	Medium				\$0	\$0	
Monitoring & Maintenanc	e						
Vater Truck					\$0	\$0	\$
Grader					\$0	\$0	\$
	Gallons/	Days/		Cost/			
Description	Day	Month	Duration mo.	Gallon \$			Totals \$
Nater Fees	1 1		ino.	Ŷ			Ŷ
Vater Fees							9
			Total Pro	ject Maintenance	\$3,423	\$4,917	\$8,34

Go To Labor Rates sheet ar

Go To Labor Rates sheet and select Zone for Each Labor Classi

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan
Date of Submittal: May 2022
File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm
Cost Estimate Type: Surety Cost Basis: Northern Nevada

Direct Input
Pull Down Selection
Alternate Input
d Cell - Formula or Reference
c

## ZONE ADJUSTMENTS

Cost Basis/Project Region	Northern Nevada	Churchill, Dou	Douglas, Elko, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White Pine Counties
Power Equipment Operators	>60 miles	Invalid Zone	
Truck Drivers	>70 miles	Invalid Zone	le la
Laborers	>50 miles	Invalid Zone	ne la
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	12.00%		
Other Indirects			
State Payroll Tax (13),(15),(17),(1			
Total Other Indirects	0.00%		

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 (\$	6/hr) (2)									
Bulldozers										
D6R		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70.
D6R w/ Winch					\$24.80					
D7R		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
D8R		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
D9R		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
D10R		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
D11R		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
Wheeled Dozers										
824G					\$24.80					
834G					\$24.80			Ψ.		
844					\$24.80					
854G					\$24.80					
Motor Graders										
120H		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
14G/H		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
16G/H		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
24M					\$24.80					
Track Excavators										
312C	1	\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
320C		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60		\$71
325C		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$7
330C		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$7
345B		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
365BL		¢00.07	Intelle Lono	\$00.01	\$24.80	<i><i><i></i></i></i>	¢2.01	φ1.00	¢0.00	
385BL		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
Scrapers						<b>*</b> ···•	÷=	+	÷	
631G		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
637G		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60		\$70
Wheeled Loaders						+	+=	+		<b>.</b>
924G	1	\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
928G		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
950G		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70
966G		\$38.37	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.94	\$4.60	\$0.00	\$71
972G		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60		\$71
980G		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
988G		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
990		\$30.37	Invalid Zone	\$30.37	\$24.80	φ1.10	φ <b>2</b> .94	<b>\$4.00</b>	\$0.00	<b>پ</b> ر
992G		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71
992G 994D		\$30.37	Invalid Zone	\$30.37	\$24.80	\$1.10	\$Z.94	\$4.00	\$0.00	<b>پ</b> ر
994D L2350					\$24.80 \$24.80					
Shovels					ψ <b>∠</b> <del>4</del> .00			_		
					004					
PC2000					\$24.80					
PC3000					\$24.80					
PC4000					\$24.80					
PC5500					\$24.80					
PC8000					\$24.80					
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)										
G315 (fits 322/325) G320 (fits 325/330)										
G320 (fits 325/330) G330 (fits 345/365)										

Go To Labor Rates sheet and select Zone for Each Labor Classi

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan
Date of Submittal: May 2022
File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm
Cost Estimate Type: Surety Cost Basis: Northern Nevada

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	Northern Nevada	Churchill, Dou	uglas, Elko, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White Pine Counties
Power Equipment Operators	>60 miles	Invalid Zone	
Truck Drivers	>70 miles	Invalid Zone	
Laborers	>50 miles	Invalid Zone	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	12.00%		
Other Indirects			
State Payroll Tax (13),(15),(17),(1	1		
Total Other Indirects	0.00%		

Other Equipment										
420D 4WD Backhoe		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71.8
428D 4WD Backhoe		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71.8
CS533E Vibratory Roller		\$36.92	Invalid Zone	\$36.92	\$24.80	\$1.11	\$2.82	\$4.43	\$0.00	\$70.0
CS633E Vibratory Roller					\$24.80					
CP533E Sheepsfoot Compactor					\$24.80			1		
CP633E Sheepsfoot Compactor					\$24.80					
Light Truck - 1.5 Ton					\$24.80	4				
Supervisor's Truck					\$24.80	<				
Flatbed Truck					\$24.80	4				
Air Compressor + tools		\$35.46	Invalid Zone	\$35.46	\$24.80	\$1.06	\$2.71	\$4.26	\$0.00	\$68.
Welding Equipment		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71.
Heavy Duty Drill Rig		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70.
Pump (plugging) Drill Rig		\$37.51	Invalid Zone	\$37.51	\$24.80	\$1.13	\$2.87	\$4.50	\$0.00	\$70.
Concrete Pump					\$24.80					
Gas Engine Vibrator		\$36.92	Invalid Zone	\$36.92	\$24.80	\$1.11	\$2.82	\$4.43	\$0.00	\$70.
Generator 5KW					\$24.80					
HDEP Welder (pipe or liner)					\$24.80					
5 Ton Crane		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71.
20 Ton Crane		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71.
50 Ton Crane		\$38.37	Invalid Zone	\$38.37	\$24.80	\$1.15	\$2.94	\$4.60	\$0.00	\$71.
120 Ton Crane					\$24.80					
<ol><li>Equipment Type:</li></ol>		nt, LeTourneau								
(1) Equipment Type: (2) Equipment Operator Source:		nt, LeTourneau								
(2) Equipment Operator Source: (3) Zone Basis:	D-B NV20210002 44379									
(2) Equipment Operator Source: (3) Zone Basis: <b>Fruck Drivers (\$/hr) (4)</b>	D-B NV20210002 44379 From Washoe Co. Courthous	50								
(2) Equipment Operator Source: (3) Zone Basis: <b>Truck Drivers (\$/hr) (4)</b> 725	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds	se \$31.50	Invalid Zone	\$31.50	\$4.16	\$0.95	\$2.41	\$3.78	\$0.00	
(2) Equipment Operator Source: (3) Zone Basis: <b>Fruck Drivers (\$/hr) (4)</b> 725 730	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50	Invalid Zone	\$31.50	\$4.16	\$0.95	\$2.41	\$3.78	\$0.00	\$42.
(2) Equipment Operator Source: (3) Zone Basis <b>Fruck Drivers (\$/hr) (4)</b> 725 730 735	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone	\$31.50 \$31.50	\$4.16 \$4.16	\$0.95 \$0.95	\$2.41 \$2.41	\$3.78 \$3.78	\$0.00 \$0.00	\$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: <b>Fruck Drivers (\$/hr) (4)</b> 725 730 735 740	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00	\$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: Truck Drivers (\$/hr) (4) 725 730 735 740 769D	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone	\$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95	\$2.41 \$2.41	\$3.78 \$3.78	\$0.00 \$0.00	\$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: Fruck Drivers (\$/hr) (4) 725 730 735 740 769D 773E	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (4) 725 730 735 740 7780 7732 7770	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: Fruck Drivers (\$/hr) (4) 725 730 735 740 769D 773E 777D 785C	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (4) 725 730 735 740 769D 773E 777D 773E 777D 785C 793C	D-B NV20210002 44379 From Washoe Co. Courthous ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (4) 725 735 736 737 736 740 769D 773E 777D 777E 777D 785C 793C 797B	0-B NY20210002 44379 From Washoe Co. Courthout ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 60 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: <b>Fruck Drivers (\$/hr) (4)</b> 725 730 735 740 769D 777D 777D 785C 793C 797B 613E (5,000 gal) Water Wagon	In-BIN2021000244379 From Washee Co. Courthour nuck Driver > 25 yds nuck Driver > 60 yds er Truck > 2,500 gal	\$8 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (4) 725 730 735 740 7740 773E 777D 775E 777D 785C 793C 797B 613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon	0-B NY20210002 44379 From Washoe Co. Courthout ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 60 yds	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (4) 725 730 735 740 7785 770 7770 7770 7785 7770 7978 613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon 7777D Water Truck	In-BIN2021000244379 From Washee Co. Courthour nuck Driver > 25 yds nuck Driver > 60 yds er Truck > 2,500 gal	\$8 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (3) Zone Control (3) (4) 725 730 735 740 769D 773E 777D 778E 777D 785C 793C 797B 613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon 777D Water Truck 785C Water Truck	D-B NV20210002 44379 From Washee Ce. Courthour ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 60 yds ruck Driver > 60 yds ruck Driver > 60 yds ruck Driver > 60 yds	se \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (4) 725 730 735 740 769D 773E 777D 785C 793C 797B 613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon 777D Water Truck	In-BIN2021000244379 From Washee Co. Courthour nuck Driver > 25 yds nuck Driver > 60 yds er Truck > 2,500 gal	\$8 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basis: (3) Zone Basis: (7) Conception (3) Conception (4) 725 730 735 740 769D 773E 777D 785C 793C 797B 613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon 777D Water Truck 785C Water Truck 785C Water Truck Dump Truck (10-12 yd3 )	b-B NV20210002 44379 From Washoe Ce. Courthout nuck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 25 yds ruck Driver > 60 yds er Truck > 2,500 gal er Truck > 2,500 gal fruck Driver > 8 yds <	se \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42. \$42. \$42.
(2) Equipment Operator Source: (3) Zone Basic (3) Zone Basic (3) Zone Basic (3) Zone Basic (3) Zone Basic (3) Zone Source (3)	D-B NY20210002 44379 From Washoe Co. Courthout ruck Driver > 25 yds ruck Driver > 25 yds D-B SUNV2017-001 101/120	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone Invalid Zone	\$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50 \$31.50	\$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16 \$4.16	\$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95 \$0.95	\$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41 \$2.41	\$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78 \$3.78	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$42. \$42. \$42. \$42. \$42. \$42. \$42.

Go To Labor Rates sheet and select Zone for Each Labor Classi

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan
Date of Submittal: May 2022
File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm
Cost Estimate Type: Surety Cost Basis: Northern Nevada

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

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aborars (\$/br) (6.7)		_								
Laborers (\$/hr) (6,7)		007.05		\$07.05	044.07	<b>*</b> 0.00	<b>*</b> 0.00	<b>*</b> 0.07	<u> </u>	A 17 0
General Laborer	Group 1	\$27.25	Invalid Zone	\$27.25	\$14.27	\$0.82	\$2.08	\$3.27	\$0.00	\$47.6
Skilled Laborer	Group 4	\$27.75	Invalid Zone	\$27.75	\$14.27	\$0.83	\$2.12	\$3.33	\$0.00	\$48.3
Driller's Helper	Group 3	\$27.50	Invalid Zone	\$27.50	\$14.27	\$0.83	\$2.10	\$3.30	\$0.00	\$48.0
Rodmen (reinforcing concrete)	Group 1	\$27.25	Invalid Zone	\$27.25	\$14.27	\$0.82	\$2.08	\$3.27	\$0.00	\$47.6
Cement finisher	Group 3	\$27.50	Invalid Zone	\$27.50	\$14.27	\$0.83	\$2.10	\$3.30	\$0.00	\$48.0
Carpenter		\$36.10	Invalid Zone	\$36.10	\$13.98	\$1.08	\$2.76	\$4.33	\$0.00	\$58.2
NOTES:										
	D-B LABO0169-034 10/1/202									
(7) Carpenter Source:	D-B CARP0971-013 7/1/2020									
(8) Zone Basis:	From Washoe Co. Courthous	ê								
Project Management an	d Technical Lab	or (\$/hr)	(9)							
Project Manager		\$69.19		\$69.19	\$14.27	\$2.08	\$5.29	\$8.30	\$0.00	\$99.1
Foreman		\$64.13		\$64.13	\$14.27	\$1.92	\$4.91	\$7.70	\$0.00	\$92.9
Field Geologist/Engineer		\$110.07		\$110.07	\$14.27	\$3.30	\$8.42	\$13.21	\$0.00	\$149.2
Field Tech/Sampler		\$77.46		\$77.46	\$14.27	\$2.32	\$5.93	\$9.29	\$0.00	\$109.2
Range Scientist		\$93.76		\$93.76	\$14.27	\$2.81	\$7.17	\$11.25	\$0.00	\$129.2
Senior Planning Engineer					\$14.27					
Project Engineer					\$14.27					
Mechanic/Fitter					\$14.27					-
					\$14.27					-
					\$14.27					-
					\$14.27					
					\$14.27	and the second sec				
				N. 1						
NOTES:	R.S.Means 2021 Q2 (01 31 1	220.0200 Tetal	Inel ORD 10%) Adjus	ted for Elke ND/						
(e) i rejeet manager.	R.S.Means 2021 Q2 (01 31 1									
(c) i oroman ooaroo.	Wood plc 2021 Adjusted for Z			IBG IOI EIKO, IVV						
(9) Techical Labor Source: Other Labor Source:	10000 pic 2021 Aujusted for 2	one, rax and m	a.							
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)										
conditions of corporate requirements)										

# Closure Cost Estimate Equipment Costs

OPE         Bit 018500         983.06         820.91         980.01           DPR without         Bit 33         933.13         933.13         933.13         933.13         933.13         933.13         933.13         933.13         933.13         933.13         933.13         933.13         933.14         933.13         933.13         933.13         933.13         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.14         933.13	EQUIPMENT TYPE (1)	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
OPE without         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th="">         1         1         <th1< td=""><td>Bulldozers D6R</td><td>\$10 185 00</td><td>\$63.66</td><td>\$26.51</td><td>\$90.1</td></th1<></th1<>	Bulldozers D6R	\$10 185 00	\$63.66	\$26.51	\$90.1
DBR         BR:119000         Bit 2:19         Bit 2:19 <th< td=""><td>D6R w/ Winch</td><td></td><td></td><td></td><td>\$13.3</td></th<>	D6R w/ Winch				\$13.3
OPE         328,0000         6177.50         85.94         92.33           D1R         527,05.00         52.04         57.04         52.33           D1R         527,05.00         52.04         51.04         54.34           Meeled Dozers         52.00         52.00         52.00         52.00         52.00           E44.6         1         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.00         52.0					\$101.5
D10R         933,80,00         8246.00         97.20         8318           VINCeCol Docen         92.20         910.45         94.40         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20         92.20					
D11R         SS2,785.00         S20.91         S10.80         S444           64G					
846         922.90         922.90         922.90         922.90         922.90         922.90         922.90         922.90         922.90         922.90         922.90         922.90         923.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90         93.90	D11R				\$434.7
B46         520.86         520.86         531.           B44         S31.96         S31.7         S30.67         S30.7           120H         S3.4007         S30.22         S88.7         S30.22         S88.7           120H         S3.4000         S55.75         S30.22         S88.7         S30.22         S88.7           140H         S31.70         S40.47         S40.00         S12.6         S55.24         S50.00           140H         S32.70         S40.80.00         S21.70         S40.80.00         S31.70         S31.70 <td< td=""><td></td><td>1</td><td></td><td></td><td></td></td<>		1			
644         S3 156         S3 156         S3 157           2543         S4 000         S52.75         S52.23         S52.15           14041         S3 155.00         S54.47         S44.00         S12.25           14041         S3 2000         S15.15         S52.24         S53.02         S33.22           2444         S3 2000         S15.15         S52.24         S53.02         S53.22           2520         S5 20.00         S15.26         S52.20         S53.22         S53.22           2520         S5 20.00         S15.26         S50.00         S52.32         S52.20         S53.22         S52.20         S52.20         S52.20         S52.20         S52.20					
Notor Grades         Notor           14041         \$9.4000         \$57.7         \$52.20         \$88.47           14041         \$13.51.500         \$84.47         \$44.00         \$15.500           2444         \$23.500         \$51.56         \$55.20         \$23.500           2444         \$23.500         \$27.600         \$57.500         \$57.500         \$52.600         \$57.77         \$50.00         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600         \$50.600 <td></td> <td>-</td> <td></td> <td></td> <td>\$31.9</td>		-			\$31.9
12041         98 400.00         556.75         530.22         988           160AH         953.550         584.47         644.06         513.550         584.47         644.06         513.550         584.47         644.06         513.550         584.47         644.06         513.55         552.64         520.00         520.64         541.1           2020         552.64         500.00         552.64         500.00         553.06         563.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06         553.06		-		\$40.47	\$40.4
1404h         \$13,35,500         \$84,47         \$44,00         \$12,240           1604h         \$24,260,00         \$15,15         \$55,20         \$23,00           24K         \$23,00         \$15,15         \$55,20         \$23,00           312C         \$54,600,00         \$22,00         \$12,64         \$44,15           32GC         \$5,500,00         \$40,88         \$24,83         \$77,20           32GC         \$15,07,00         \$50,00         \$52,00         \$52,20         \$52,20           33GC         \$10,07,00         \$54,44         \$57,83         \$201           531G         \$22,900,00         \$14,44         \$57,83         \$201           631G         \$24,280,00         \$151,71         \$53,34         \$21           631G         \$24,280,00         \$151,71         \$53,34         \$21           631G         \$24,280,00         \$151,71         \$53,34         \$21           631G         \$14,580,00         \$151,71         \$53,42         \$50           631G         \$14,00         \$46,68         \$24,68         \$22,08           631G         \$14,00         \$46,68         \$24,68         \$57           631G         \$14,00,00         \$46,				1	
1964h         984,280.00         \$151.58         \$55.24         \$200           7Tack         \$4.60.00         \$20.00         \$32.7           320C         \$6.60.00         \$20.00         \$32.7           320C         \$8.750.00         \$4.86.8         \$24.90           320C         \$15.750.00         \$80.00         \$32.78           320C         \$15.750.00         \$80.00         \$32.78           330BL         \$22.90.00         \$14.44         \$57.81           330BL         \$22.90.00         \$14.72         \$49.22           330BL         \$22.90.00         \$14.72         \$49.22           \$313         \$22.90.00         \$22.84         \$22.19           \$302.00         \$34.92.00         \$24.44         \$54.21           \$303.00         \$34.97.00         \$34.97.00         \$34.97.00           \$303.01         \$34.97.00         \$34.97.00         \$34.97.00 <t< td=""><td></td><td></td><td></td><td></td><td>\$88.9</td></t<>					\$88.9
Track Excaviors         Image: Science of the state					\$206.8
312C         94.600.00         92.90         91.264         94.1           320C         \$5.260.00         \$7.600.00         \$46.80         \$24.43         \$77.20           330C         \$10.075.00         \$86.80         \$24.83         \$77.20         \$72.80         \$86.80         \$23.20           3468         \$24.85         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20         \$27.20	24M			\$33.02	\$33.0
3200         \$5,245,000         \$42,485         \$22,70         \$20,000         \$32,70         \$32,70         \$32,72         \$32,000         \$310,575,00         \$84,485         \$310,575,00         \$84,485         \$310,575,00         \$810,575,00         \$310,575,00         \$310,575,00         \$310,575,00         \$310,575,00         \$310,575,00         \$310,575,00         \$322,12         \$220,300         \$313,445,372,857,30         \$201           30581L         \$322,980,00         \$313,44         \$375,733         \$201         \$440,300         \$326,430,00         \$326,44         \$20,19         \$440,300,97,733         \$201         \$440,300,97,733,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97,900,97					
326C         \$7,500.00         \$44.88         \$24.40.90         \$77.28           330C         \$10,575.00         \$60.90         \$30.00         \$59.81           3468         \$14,565.00         \$14.34         \$57.28         \$12.83           3588.         \$22,800.00         \$14.34.41         \$57.32         \$23.83           357.3         \$23.820.00         \$17.82.5         \$89.89.2         \$25.77           787.6         \$24.620.00         \$28.44.5         \$42.83         \$50.55           956.6         \$31.555.00         \$24.44.5         \$42.83         \$51.55           956.6         \$32.555.00         \$24.47         \$46.20         \$23.84.71         \$41.51         \$12.55           956.6         \$32.555.00         \$24.47         \$46.20         \$23.85         \$13.55         \$23.85.80         \$23.278         \$41.93         \$12.55           957.6         \$25.125.00         \$24.47         \$46.22         \$13.55         \$23.82.81         \$12.278         \$44.00         \$14.40.02         \$14.02         \$13.55         \$25.125.00         \$33.82.81         \$12.278         \$10.55         \$10.55         \$10.55         \$10.55         \$10.55         \$10.55         \$10.55         \$10.55         \$10.55					
4488         \$14,665,00         \$91,03         \$37,28         \$128           3888.         \$22,90,00         \$143,44         \$57,83         \$201           STG         \$32,828,00         \$113,34         \$57,83         \$212           STG         \$32,828,00         \$117,85         \$533,34         \$215           STG         \$32,820,00         \$173,85         \$899,82         \$207           VNeeled Laaders         """"""""""""""""""""""""""""""""""""					\$32.0
3888.         \$22,000         \$143.44         \$57.73         \$201           Sarapers         ************************************	330C	\$10,575.00	\$66.09	\$30.06	\$96.1
3888.         \$22,90.00         \$143.44         \$77.83         \$201.           STG         \$28,285.00         \$151.76         \$93.34         \$215.           STG         \$28,020.00         \$17.85         \$99.92         \$207.           VNeeded Loaders         \$22.00         \$22.44         \$22.15         \$90.25         \$90.27           STG         \$28.400.00         \$22.45         \$54.400.00         \$84.460         \$22.45         \$57.41           SPSG         \$10.670.00         \$86.69         \$33.75         \$10.570.00         \$90.99         \$22.252.00         \$10.470.97         \$90.99         \$22.227         \$90.99         \$22.227         \$90.99         \$33.92.90         \$12.227         \$90.99         \$33.92.90         \$12.227         \$90.99         \$33.92.90         \$12.390         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.970.60         \$10.9		\$14,565.00	\$91.03		\$128.3
Scrapers         Series           6310         \$24,285.00         \$151.72         \$93.34         \$217           6310         \$28,280.00         \$177.825         \$98.92         \$26.77           9280         \$127.825         \$98.92         \$26.77         \$26.90         \$52.44         \$22.05         \$52.44         \$22.05         \$52.44         \$22.45         \$52.265         \$52.445         \$52.265         \$52.455         \$52.275         \$51.05         \$56.447         \$56.50         \$22.455         \$55.275         \$51.05         \$56.447         \$56.50         \$22.35         \$55.275         \$51.05         \$56.272         \$51.05         \$56.272         \$56.01         \$50.02         \$50.272         \$56.01         \$50.02         \$50.272         \$56.122         \$56.122         \$56.122         \$56.122         \$56.122         \$56.122         \$56.122         \$56.122         \$56.122         \$56.121         \$56.01         \$56.20         \$50.05         \$57.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851         \$77.851		\$22.050.00	\$1/2 //		\$28.1
St3G         St24285.00         St1178         St33.4         St178           St7G         St20.000         St77.45         St93.24         St27.75           St2G         St20.000         St24.61         St22.010         St42           St2G         St22.000         St24.63         St22.010         St42           St2G         St2.010         St44.000         St24.64         St72.01           St2G         St3.515.00         St44.47         St46.62         St13.515.00           St2G         St3.515.00         St44.47         St46.62         St3.515.00           St2G         St3.515.00         St44.47         St46.62         St31.515.00           St2G         St3.515.00         St44.47         St46.62         St31.515.00           St2G         St4.125.00         St3.815.00         St44.02         St31.515.00           St2G         St4.40.00         St78.81         St78.51           PC2000         St3.515.00         St4.40.05         St3.015.00           PC2000         St3.515.00         St3.71         St3.71           PC3000         St3.515.01         St3.71         St3.71           PC4200.01         St3.21         St3.01         St3.71 <td></td> <td>\$22,950.00</td> <td>\$143.44</td> <td>\$37.63</td> <td>ə201.2</td>		\$22,950.00	\$143.44	\$37.63	ə201.2
6376         \$28,500.00         \$178.25         \$89.20         \$27.7           9246         \$4230.00         \$27.44         \$50.19         \$46           9260         \$44.800.00         \$22.48         \$52.20         \$50           9960         \$17.400.00         \$44.60         \$52.44         \$54.57           9960         \$13.515.00         \$84.47         \$44.61         \$12.29           9900         \$13.515.00         \$84.47         \$44.61         \$12.29           9900         \$22.225.20         \$14.72         \$86.60         \$200.20           9800         \$22.225.20         \$14.72         \$86.60         \$200.20           9800         \$22.225.20         \$14.72         \$86.60         \$200.20           9800         \$22.625.00         \$14.72.00         \$338.29         \$17.20           9800         \$22.025.00         \$140.50         \$160.50         \$160.77           9800         \$22.00         \$140.50         \$160.50         \$160.77           9800         \$22.00         \$140.50         \$160.50         \$160.77           9800         \$27.78         \$11.79         \$131.30         \$77         \$131.30         \$77           9800.00 </td <td></td> <td>\$24,285.00</td> <td>\$151,78</td> <td>\$63,34</td> <td>\$215.1</td>		\$24,285.00	\$151,78	\$63,34	\$215.1
9240         942.00         924.41         920.19         944           9280         956.00         924.63         922.63         922.64         922.64           9800         951.070.00         944.63         952.64         977.6           9800         91.070.00         944.63         952.75         910.75           9800         91.35.15.00         944.47         44.66.2         913.15           9800         922.2         954.12.78         944.77         456.60         927.27           992.0         922.2         954.12.78         944.71         946.60         957.66           992.0         922.2         954.12.78         944.71         946.61         957.17           992.0         922.6         954.12.78         944.71         945.77         194.10         94.77           123.00         97.78.11         97.77         97.78.81         97.77         97.81         97.77         97.78.81         97.72         97.78.81         97.79         97.74         97.74         97.74         97.74         97.74         97.74         97.74         97.74         97.74         97.74         97.74         97.97         97.97         97.97         97.97         97.97	637G				\$267.7
9260         \$4,690.00         \$28.63         \$22.08         \$50.           9960         \$10,070.00         \$66.69         \$36.75         \$10.           9720         \$13,515.00         \$84.47         \$40.60         \$22.52.00         \$140.78         \$40.51         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$84.47         \$40.62         \$13.515.00         \$140.78         \$12.28         \$46.10         \$14.01         \$14.01         \$14.01         \$14.01         \$14.01         \$14.01         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78         \$140.78					
9960         97.440.00         944.6.50         52.8.4.5         97.4           9960         \$10.670.00         \$84.47         \$84.51         \$12.5           9960         \$13.515.00         \$84.47         \$84.62         \$13.515.00           9960         \$12.225.00         \$14.078         \$86.62         \$22.025.00           9960         \$12.02         \$14.078         \$86.66         \$22.025.00           9960         \$12.02         \$14.078         \$86.68         \$77.68           9960         \$15.500         \$338.28         \$12.27.8         \$46.61           9960         \$14.00         \$14.00.88         \$77.6         \$77.8.81         \$77.6           9960         \$14.00         \$14.00.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.80         \$106.81         \$10.82         \$13.41.91         \$11.40         \$11.81         \$87.7         \$23.53         \$11.40         \$13.81.83         \$17.37         \$23.53         \$13.31         \$87.7         \$13.31         \$87.7         \$13.41         \$87.97         \$13.40         \$25.55         \$33.55         \$13.35         \$13.35 <td></td> <td></td> <td></td> <td></td> <td>\$46.6</td>					\$46.6
996G         \$10,070.00         \$66.69         \$3.07.5         \$10.2           972G         \$13,515.00         \$84.47         \$40.151         \$13.515.00         \$84.47         \$40.12         \$13.515.00         \$84.47         \$40.12         \$13.515.00         \$84.47         \$40.12         \$13.515.00         \$84.47         \$40.21         \$13.515.00         \$84.47         \$40.21         \$13.515.00         \$20.22         \$13.515.00         \$14.02.50         \$13.515.00         \$14.02.50         \$13.515.00         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.02.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50         \$14.52.50 <t< td=""><td></td><td></td><td></td><td></td><td>\$50.1</td></t<>					\$50.1
9720         913,315,30         984,47         941,31         912           9900         \$13,315,30         \$84,47         \$46,82         \$131           9800         \$22,255,00         \$140,76         \$86,60         \$200           990         \$22,255,00         \$140,76         \$86,60         \$200           990         \$22,255,00         \$338,28         \$122,78         \$464,15           9940         \$23,20         \$338,28         \$122,78         \$464,15           9940         \$23,00         \$338,28         \$122,78         \$464,05           9940         \$23,00         \$140,88         \$176         \$23,37           9940         \$23,30         \$140,08         \$140,08         \$144,90           9940         \$23,37         \$13,40         \$144,90         \$144,90           9940         \$23,315,00         \$27,88         \$177,41         \$13,40         \$90           9940         \$23,315,00         \$27,88         \$579         \$33         \$44,30         \$90           9940         \$23,315,00         \$27,88         \$577,41         \$13,40         \$90           9940         \$23,315,00         \$27,741         \$13,40         \$90				+==	\$103.4
9860         \$22,855.00         \$140.78         \$66.60         \$200           9900         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12         \$382.12 <td>972G</td> <td>\$13,515.00</td> <td>\$84.47</td> <td>\$41.51</td> <td>\$125.9</td>	972G	\$13,515.00	\$84.47	\$41.51	\$125.9
990					\$131.0
9920         \$54,125,00         \$338,28         \$122,78         \$461           L230         \$140,58         \$76,68         \$77           Shovels         -         \$76,68         \$77           PC2000         \$77,68,11         \$78         \$77,68           PC3000         \$140,50         \$140,50         \$160,50           PC4000         \$173,73         \$17         \$173,73           PC3000         \$123,73         \$17,73         \$17,73         \$17,73           PC4000         \$12,355,00         \$27,84         \$57,67         \$33           H+120 (ffts \$25,95)         \$4,460,00         \$27,84         \$57,67         \$33           H+120 (ffts \$25,95)         \$4,460,00         \$27,84         \$57,67         \$33           H+120 (ffts \$25,95)         \$4,460,00         \$27,84         \$57,67         \$33           Demolition Shears         \$50         \$57,741         \$500         \$50           S300 (ffts \$26,263,00         \$51,56         \$59         \$50         \$50           S301 (ffts \$26,276,533)         \$23,315,00         \$20         \$20         \$25,327         \$34           4200 4WD \$56,660         \$2,335,00         \$51,57         \$34         \$353		\$22,525.00	\$140.78		\$206.3
940         976.68         976.68         976.68         976.68         974.05           PC2000         576.81         576.81         576.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.81         577.91         577.41         573.40         590.00         577.41         573.40         590.00         577.41         573.40         590.00         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01         590.01		\$54,125,00	\$338.28	+	\$36.2
Showlis         Structure	994D			\$76.68	\$76.6
PC2000         \$78.81         \$77.81         \$70.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.00         \$10.85.				\$140.58	\$140.5
PC3000         \$100.50         \$100.50         \$100.50         \$100.50           PC3000         \$140.10         \$140.10         \$140.10         \$140.10           PC3000         \$253.47         \$253.         \$253.47         \$253.           PC3000         \$27.88         \$57.79         \$317.37         \$317.37         \$317.37           H-120 (fits 325)         \$4.460.00         \$27.88         \$57.79         \$33.           H-160 (fits 345)         \$5.990.00         \$56.19         \$11.31         \$57.71         \$13.40         \$50.00           Demolition Shears         \$32.385.00         \$77.41         \$13.40         \$50.00         \$10.52         \$50.00         \$10.52         \$50.00         \$50.50         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00			1	¢70.01	¢70.0
PC4000         \$149.10         \$149.10         \$149.10         \$149.10           PC5500         \$253.47         \$253.77         \$317.37         \$317.37           Hydraulic Hammers         \$147.20         \$153.77         \$317.37         \$317.37           H-120 (th 325)         \$4,460.00         \$27.88         \$55.79         \$33.7           H-160 (th 365.36)         \$30.960.00         \$57.41         \$57.90         \$33.90           S300 (th 326.36)         \$12.385.00         \$77.41         \$50.00         \$50.00         \$50.00           S306 (th 326.26)         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.00         \$50.20         \$50.00         \$50.22         \$51.50         \$57.99         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20         \$50.20		-			
PC8000         S317.37         S337.37         S377.37         S37.37		-			\$149.1
Hydraulic Hammers         St. 460.00         527.88         55.79         533           H-120 (fits 325)         \$4.460.00         \$27.88         \$5.79         \$33           H-180 (fits 345)         \$1.2085.00         \$77.41         \$13.40         \$900           Demolition Shears         \$300.00         \$56.19         \$11.31         \$977           S340 (fits 3267.5330)         \$30         \$30         \$300         \$300           S350 (fits 350.365)         \$300         \$300         \$300         \$300           G315 (fits 322325)         \$300         \$300         \$300         \$300         \$300           G316 (fits 3203.96.2730)         \$300         \$300         \$300         \$300         \$300           G316 (fits 3203.96.27330)         \$300         \$300         \$300         \$300         \$300           G316 (fits 3203.96.27330)         \$300         \$300         \$210.37         \$311         \$310           G316 (fits 3203.96.27330)         \$300         \$300         \$210.38         \$315.00         \$220         \$315.23         \$315.00         \$220         \$315.23         \$315.00         \$220.72         \$15.12.31         \$320         \$323.55.00         \$316.22         \$15.37         \$311.420	PC5500	-			\$253.4
H-120 (ths 325)         S4.460.00         S27.86         S5.7e         S3.7e           H-160 (ths 345)         S8.990.00         S56.19         S11.31         S97.           H-160 (ths 345)         S12.385.00         \$77.41         \$13.40         S90.           Demolition Shears         S304 (ths 2026/530)         S0         S0<				\$317.37	\$317.3
H-160 (IIIs 365/36)         \$8,990.00         \$57.19         \$11.31         \$67.71           H-160 (IIIs 365/36)         \$12,385.00         \$77.49         \$13.40         \$90           Demolition Shears         \$10.40         \$90         \$90           S340 (IIIs 22035/330)         \$90         \$90         \$90           S350 (IIIs 22035/330)         \$90         \$90         \$90           G315 (IIIs 322325)         \$90         \$90         \$90           G300 (IIIIs 345,265)         \$90         \$90         \$90           G300 (IIIII S42,265,00)         \$16.22         \$15.37         \$91           4200 4WD Backnee         \$3,315.00         \$20.72         \$15.23         \$93           C58335 Whatory Role         \$16.22         \$15.37         \$91         \$90         \$97           C98335 Stepsolad Compactor         \$10.12         \$10         \$10.12         \$10         \$10.12         \$10           Loph Truck 1.45 rot         \$4,122.80         \$25.77         \$3.49         \$22         \$10.23         \$10         \$10.12         \$10         \$10.12         \$10         \$10.12         \$10         \$10.12         \$10         \$10.12         \$10         \$10.12         \$10         \$10.12         \$		\$4,460,00	\$27.99	£5.70	¢22.6
H-180 (Its 365/38)         \$12,385.00         \$77.41         \$13.40         \$900           Demolition Shars         \$350 (Its 22/25/330)         \$0         \$0         \$350         \$0         \$0         \$350         \$0         \$0         \$0         \$300         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0					\$33.1
SM0 (the g2292/530)         90           S365 (the 30626)         55           S390 (the 36626)         50           Casts (the 3292/530)         90           S390 (the 36626)         90           Casts (the 3292/530)         90           S300 (the 36626)         90           S300 (the 366260)         90           S300 (the 366260)         90           S300 (the 366260)         90           S300 (the 366260)         90           S400 (the 386260)         91.57           S420 4VtD Backnee         \$3,315.00         \$20.72           CS332 Variatory Role         \$8,250.00         \$51.61         \$7.99           CS3332 Variatory Role         \$8,260.00         \$51.71         \$51.01           CP5333 Strepsolod Compactor         \$10.12         \$10.12         \$10.72           CP5335 Strepsolod Compactor         \$10.32         \$24.22         \$25.77         \$3.49         \$29           Value Value Value         \$3.862.00         \$23.02         \$24.22         \$25.77         \$3.49         \$29           State value Value Value         \$3.862.00         \$23.02         \$24.22         \$25.77         \$3.16.2         \$23.37           Waiding Equipment         \$33					\$90.8
S355 (the S300/s5)         90           S300 (this 322/325)         90           C315 (this 322/325)         90           C315 (this 322/325)         90           C315 (this 322/325)         90           C315 (this 322/325)         90           C420 Hw/ D Staton         \$2,595.00           C420 Hw/ D Staton         \$2,595.00           C420 Hw/ D Staton         \$2,595.00           C5335 Workov Rolen         \$3,315.00           C5335 Workov Rolen         \$3,315.00           C5335 Workov Rolen         \$10.12           C7833E Sheepston Compactor         \$10.12           Sheepston Compactor         \$10.12           C7833E Sheepston Compactor         \$10.12           Wathing Touly Touton         \$10.53.00           Sheepston Workor         \$10.52.25           Sheepston Workor         \$12.20.0 <td></td> <td></td> <td></td> <td>1</td> <td></td>				1	
S300 (the 36:038)         90           G315 (the 32:2325)         91           G315 (the 32:2325)         91           G315 (the 32:2325)         91           G302 (the 32:2325)         91           G302 (the 32:2325)         91           G303 (the 38:246)         90           G315 (the 32:2325)         91           G316 (the 38:246)         91           G315 (the 38:346)         91           G315 (the 38:346)         92           Subpring (the 38:346)         92           Subpring (the 38:346)         92           Subpring (the 38:356)         92           Subpring (the 38:366)         92           Subpring (the 38:366)         92	S340 (fits 322/325/330)				\$0.0
Demolition Grapples         So           C315 (fts 322/32);         S0           G320 fts 22/32);         S0           G420 fts 22/32);         S0           G430 fts 22/32);         S0           G420 fts 22/330);         S0           G430 fts 22/330;         S0           G430 fts 22/32);         S1           G420 MVD Bischon         \$2,595.00           G420 MVD Bischon         \$2,315.00           CS332 Waratov Roler         \$3,315.00           CS3332 Waratov Roler         \$10.12           CP833E Sheepston Compactor         \$10.12           Super visor 4 funze         \$3.682.0         \$22.02           Super Visor 4 funze         \$3.682.0         \$22.02           Super Visor 6 funze         \$3.799.20         \$3.82.5           Concrete Pump         \$3.808.00         \$21.38         \$22.56           Concrete Pump         \$3.800.00         \$55.00         \$21.30           Concrete Pump <td>S305 (fits 355/385) S390 (fits 365/385)</td> <td></td> <td></td> <td></td> <td>\$0.0</td>	S305 (fits 355/385) S390 (fits 365/385)				\$0.0
G320 ms.225/330)         90           G330 (ms.325/36)         90           G420 4WD Bachoe         \$2,065.00         \$16.22         \$15.37           G420 4WD Bachoe         \$3,315.00         \$20.72         \$15.23         \$53.00           CS303 (ms.325/s0)         \$16.22         \$15.37         \$31.00         \$20.72         \$15.23         \$55.56         \$7.99         \$59.55         \$57.99         \$59.55         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.9					
G938 (this 345,265)         9.0           4200 4WD Bicstoon         \$2,956.00         \$16.22         \$15.37         \$31           4200 4WD Bicstoon         \$2,956.00         \$16.22         \$15.37         \$31           4200 4WD Bicstoon         \$2,956.00         \$16.22         \$15.37         \$31           62835 EVaratory Role         \$8,260.00         \$51.56         \$7.90         \$59           C56335 EVaratory Role         \$8,260.00         \$51.56         \$7.90         \$57           C76335 Energolod Compactor         \$7.90         \$7.7         \$3.49         \$22.57         \$1.42         \$2.57           Loph Truck, 1.4 for         \$4,122.80         \$25.77         \$1.40         \$2.7         \$1.62         \$2.7           Weaking Equipment         \$3.082.80         \$22.37         \$1.62         \$2.7         \$1.62         \$2.7           An CompareSort + tools         \$5.799.20         \$3.62.5         \$2.13         \$3.8         \$2.23         \$2.9           Heavy Duly Dult Rig         \$33.660.00         \$21.03         \$22.13         \$2.3           Concrete Pump         \$8.804.08         \$3.53         \$2.13         \$3.7           Concrete Pump         \$8.804.00         \$55.00         \$21.30					\$0.0
Other Equipment           4200 4V/0 Section         \$2,2695.00         \$16.22         \$15.37         \$31           4200 4V/0 Section         \$3,315.00         \$20.72         \$15.23         \$33           CS3352 Varatory Role         \$8,260.00         \$51.56         \$7.99         \$89           CS3352 Varatory Role         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22         \$10.22					\$0.0
4200 AVD Bischoo         \$2,985.00         \$16.22         \$15.37         \$31.37           4280 AVD Bischoo         \$3,315.00         \$20.72         \$15.23         \$25.55           C8338E Vibratory Roles         \$20.72         \$15.23         \$25.55           C9338E Vibratory Roles         \$3.15.00         \$51.56         \$7.99         \$59.55           C9338E Vibratory Roles         \$1.01.21         \$10.72         \$15.23         \$15.55         \$15.65         \$7.99         \$57.55           CP333E Stepesiod Compactor         \$1.90         \$17.75         \$3.40         \$25.77         \$3.40         \$22.22         \$25.77         \$3.40         \$22.92         \$22.77         \$3.16.02         \$2.13         \$33.58         \$3.62.20         \$2.2.42         \$25.77         \$3.40         \$2.33         \$2.42         \$2.55         \$2.13         \$3.83         \$4.26         \$2.33         \$4.26         \$2.33         \$4.26         \$2.33         \$2.25.56         \$2.23.2         \$2.21.33         \$2.34         \$2.23         \$2.73         \$3.65         \$2.13         \$3.83         \$2.03         \$2.13         \$3.83         \$2.00         \$2.55.50         \$2.13         \$3.83         \$2.03         \$2.13         \$3.83         \$2.13         \$3.55         \$2.13<					30.0
4280 AVD Backson         \$3,315.00         \$20.72         \$15.23         \$33           CS335 EViratory Rolm         \$5,250.00         \$51.56         \$7.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99         \$57.99 <td></td> <td>\$2,595.00</td> <td>\$16.22</td> <td>\$15.37</td> <td>\$31.5</td>		\$2,595.00	\$16.22	\$15.37	\$31.5
CB5332 Waraboy Fibe         \$10.12         \$10.12         \$10.12           CP5333E Sheepsion Compactor         \$7.99         \$7.           CP6333E Sheepsion Compactor         \$10.12         \$10.12           Lopht Truck - Lot or         \$4.122.80         \$25.77         \$3.49         \$2.42           Subartisorie         \$3.682.80         \$23.30.2         \$2.42         \$25.77           All Compactor         \$3.682.80         \$23.00.2         \$2.42         \$25.77           All Compactor         \$3.682.80         \$22.77         \$11.62         \$37.7           All Compactor Lools         \$5.799.20         \$38.25         \$2.13         \$33.80           Weiding Equipment         \$3.3080.00         \$2.10.38         \$22.130         \$22.130           Heavy Duby Dril Rig         \$33.800.00         \$5.50         \$2.13         \$57.92           Concrete Pump         \$5.80.00         \$5.50         \$2.13         \$57.92           Generator SRV         \$16.75.52         \$10.47         \$3.20         \$51.33         \$55.52           20 Ton Crane         \$57.93.320         \$44.55         \$4.26         \$56.20           20 Ton Crane         \$12.122.00         \$75.76         \$8.5.2         \$44.26	428D 4WD Backhoe				\$35.9
CP533E Sheepfon Compactor         \$7.99         \$7.           CP533E Sheepfon Compactor         \$10.12         \$10.           Light Truck - 16 for         \$4.122.80         \$23.77         \$3.49         \$22.           Supervisor Truce         \$3.862.80         \$22.377         \$3.49         \$22.           Supervisor Truce         \$3.862.80         \$22.377         \$3.16.2         \$37.7           Air Compressor + tools         \$5.799.20         \$32.62.5         \$2.13         \$38.           Walding Fquipment         \$5.3063.20         \$21.03.8         \$22.5.66         \$22.37           Heavy Duty Onll Rig         \$33.660.00         \$210.38         \$22.5.66         \$22.37           Concrete Pump         \$8.800.00         \$55.00         \$21.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$27.30         \$22.30         \$23.30         \$22.30         \$37.56         \$3.63.20         \$33.20         \$33.20         \$33.20         \$33.20         \$35.20         \$37.45         \$32.40         \$33.10         \$33.7.45         \$32.20         \$	CS533E Vibratory Roller	\$8,250.00	\$51.56		\$59.5
CPR32E Sheepsfor Grapactor         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12         \$10.12 <td></td> <td>-</td> <td>   </td> <td></td> <td></td>		-			
Number         State         State <t< td=""><td></td><td></td><td></td><td></td><td>\$7.5</td></t<>					\$7.5
Sige visor/struct         53,682.80         523.02         52.42         525.           Plathos risord         54,122.80         525.77         511.62         537.           An Compressor + lools         55,799.20         530.25         52.13         538.           Weaking Fougiment         53,093.20         519.33         54.26         523.77           Heavy Duty Drill Rig         533,660.00         5210.38         522.56         523.57           Concrete Fourip         58,800.00         555.00         521.30         577.6           Gase Engine Vibrator         58,600.00         555.00         521.30         577.6           Gase Engine Vibrator         58,600.00         555.00         521.30         577.6           Gase Engine Vibrator         58,712.00         554.45         54.26         556.           20 Ton Crane         512.120.00         575.76         85.62         845.50           50 Ton Crane         512.122.00         575.76         85.62         844.58           50 Ton Crane         512.122.00         575.76         85.62         844.58         51.00           725         514.690.00         591.81         532.45         51.00         735         51.40         50.10	Light Truck - 1.5 Ton			\$3.49	\$29.3
An CompareSor + tools         \$5,709.20         \$32.25         \$2.13         \$38. Weshing Equipment         \$3,009.20         \$19.33         \$4.26         \$22.33           Heavy Duty Duty Dut Rig Pump (pugging) Duit Rig Concrete Pump         \$33,060.00         \$210.38         \$22.56         \$223. \$23.10         \$27.03           Concrete Pump         \$38,060.00         \$55.00         \$21.38         \$22.33         \$27.30           Case Engine Vitrator         \$58,000.00         \$55.50         \$22.33         \$57.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02         \$37.02	Supervisor's Truck				\$25.4
Weshim#Equipment         \$3,093.20         \$19.33         \$4.26         \$22.3           Heavy DLy DH Big         \$33,680.00         \$210.38         \$22.3.6         \$23.5           Pump (plugging) Drill Rig         \$33,680.00         \$210.38         \$22.3.6         \$23.5           Concreto Pump         \$8,800.00         \$210.38         \$22.3.0         \$27.6           Case Engine Vitrator         \$8,800.00         \$556.00         \$22.3.0         \$27.6           Gaise Engine Vitrator         \$8,800.00         \$54.45         \$2.2.0         \$37.6           MDEP Wideler (pipe or liner)         \$8,712.00         \$54.45         \$4.2.6         \$58.5           S0 Ton Crane         \$12,122.00         \$75.76         \$8.5.2         \$49.95           S0 Ton Crane         \$12,122.00         \$75.76         \$11.08         \$51.10           Trucks         Trucks         \$120 Ton Crane         \$12,122.00         \$75.76         \$12.0           730         \$14,690.00         \$91.81         \$53.45         \$14.60         \$37.45         \$129.70           735         \$14,690.00         \$91.81         \$52.15         \$14.40         \$37.45         \$129.70           770         \$243,000.00         \$181.3         \$52.16					\$37.3
Heary Duty Duty Duty Dut Rig         \$33,860.00         \$21.0.38         \$22.5.66         \$25.5           Pump (pbugging) Drill Rig         \$33,860.00         \$21.0.38         \$21.30         \$27.1           Concrete Pump         \$8,800.00         \$55.00         \$21.1.30         \$77.0           Gare Engine Vitrator         \$640.08         \$3.5.3         \$2.1.3         \$57.0           Gare Engine Vitrator         \$640.08         \$3.5.3         \$2.1.3         \$57.0           Gare Engine Vitrator         \$640.08         \$3.5.3         \$2.1.3         \$57.0           Gare Engine Vitrator         \$640.75.20         \$54.4.4         \$4.2.6         \$66.3           S Ton Crane         \$7.7.6         \$6.5.2         \$640.58         \$63.30         \$55.20           20 Ton Crane         \$12.122.00         \$7.5.7.6         \$8.6.52         \$84.58           50 Ton Crane         \$12.122.00         \$7.5.7.6         \$8.0.52         \$84.58           720 Ton Crane         \$12.122.00         \$7.5.7.6         \$8.0.52         \$14.00.00         \$91.81         \$37.45         \$12.0           735         \$14.690.00         \$91.81         \$33.7.45         \$12.0         \$14.00         \$18.1         \$37.45         \$12.0					\$38.
Concrete Pump         \$8,800.00         \$55.00         \$21.30         \$976           Gase Engine Vitroir         \$5964.08         \$3.5.3         \$21.30         \$55           Generator KWW         \$1.675.52         \$10.47         \$3.20         \$13.5           HDEF Weider (pipe or liner)         \$8,712.00         \$554.45         \$4.26         \$55.           5 Fon Crane         \$7.933.20         \$44.58         \$6.36         \$55.           60 Ton Crane         \$12.122.00         \$75.76         \$8.62         \$98.62           60 Ton Crane         \$12.122.00         \$75.76         \$8.62         \$98.72           700 Crane         \$12.122.00         \$75.76         \$8.62         \$98.72           730         \$14.690.00         \$91.81         \$37.45         \$12.72           730         \$14.690.00         \$91.81         \$33.65         \$14.72           740         \$14.690.00         \$91.81         \$53.46         \$14.72           770         \$14.690.00         \$91.81         \$53.46         \$14.72           777D         \$14.690.00         \$91.81         \$53.46         \$14.72           777D         \$14.690.00         \$91.81         \$53.46         \$14.72	Heavy Duty Drill Rig	\$33,660.00	\$210.38	\$25.56	\$235.
Gas Engine Vibrator         \$594.09         \$1.3         \$2.13         \$5.5           Generator SKW         \$1.675.52         \$1.0.47         \$3.20         \$1.3           HDEP Widder (pipe or line)         \$8,712.00         \$54.45         \$4.26         \$56.55           20 Ton Crane         \$57.933.20         \$49.58         \$6.39         \$55.20         \$57.67         \$50.32           20 Ton Crane         \$12,122.00         \$75.76         \$10.01         \$85.71         \$85.72         \$1.001         \$85.71           20 Ton Crane         \$12,122.00         \$75.76         \$10.01         \$85.71         \$1.08         \$11.72           725         \$14,690.00         \$91.81         \$37.45         \$12.92         \$13.00         \$1.18         \$1.07           730         \$14,690.00         \$91.81         \$53.45         \$14.69         \$1.16         \$37.00         \$14.690.00         \$91.81         \$55.21         \$1.14           730         \$14.690.00         \$91.81         \$55.45         \$1.46         \$1.08         \$1.72           730         \$14.690.00         \$91.81         \$55.45         \$1.51         \$1.92         \$1.92         \$1.92         \$1.93           7700         \$23.090.00					\$231.0
Generator KKW         \$1,075.82         \$1,00.47         \$3.20         \$13.21           HDEF Welder (pipe or liner)         \$3,712.00         \$54.45         \$4.26         \$58           5 Ton Crane         \$7,933.20         \$54.55         \$4.26         \$58           20 Ton Crane         \$12,122.00         \$75.76         \$8.6.29         \$85.55           20 Ton Crane         \$12,122.00         \$75.76         \$8.6.29         \$84.55           20 Ton Crane         \$12,122.00         \$75.76         \$8.6.29         \$84.55           20 Ton Crane         \$12,122.00         \$75.76         \$8.6.29         \$84.55           120 Ton Crane         \$21,122.00         \$75.76         \$8.6.29         \$84.55           700 Ton Crane         \$21,22.00         \$75.76         \$8.52         \$94.81         \$37.45         \$127           730         \$14,690.00         \$91.81         \$33.85.21         \$131.08         \$117.75         \$10.77         \$14.690.00         \$14.18         \$35.21.91         \$144.77           780         \$14.690.00         \$14.18         \$53.65         \$141.775         \$10.775         \$10.775         \$10.775         \$10.775         \$10.775         \$10.775         \$10.775         \$10.776         \$10.77			\$55.00		\$76.3
HDEP Welder (pipe or liner)         \$8,712.00         \$54.45         \$4.26         \$58.52           5 Ton Crane         \$7933.20         \$49.58         \$63.95         \$50.757.6         \$8.52         \$84.51           20 Ton Crane         \$12,122.00         \$75.76         \$8.52         \$84.51         \$84.52         \$84.51           50 Ton Crane         \$12,122.00         \$75.76         \$8.52         \$84.51         \$84.52         \$84.51           120 Ton Crane         \$12,122.00         \$75.76         \$10.01         \$85.52         \$84.51           Trucks         \$11.01         \$85.52         \$84.69         \$81.81         \$11.           Tzz         \$14,690.00         \$91.81         \$37.45         \$12.92         \$13.72         \$14.690.00         \$91.81         \$52.19         \$14.490           735         \$14,690.00         \$91.81         \$52.19         \$14.491         \$14.57.10         \$14.57.10         \$14.57.10         \$14.691.00         \$18.11         \$52.48         \$14.57.10         \$14.691.00         \$269.38         \$77.15         \$123.050.00         \$183.13         \$50.10         \$23.37.00         \$183.13         \$50.10         \$23.37.00         \$183.13         \$50.10         \$23.37.00         \$12.17         \$12.17 <td></td> <td>+</td> <td></td> <td></td> <td>\$5.0 \$13.0</td>		+			\$5.0 \$13.0
5 Ton Crane         \$7,933.20         \$44.58         \$6.39         \$55.20           20 Ton Crane         \$12,122.00         \$75.76         \$10.01         \$65.20           120 Ton Crane         \$12,122.00         \$75.76         \$10.01         \$65.20           120 Ton Crane         \$11.22.00         \$75.76         \$10.01         \$65.20           120 Ton Crane         \$11.06         \$11.06         \$11.06         \$11.06           Trucks         \$11.06         \$91.81         \$33.7.45         \$12.20           730         \$14.690.00         \$91.81         \$33.52.19         \$14.47           740         \$14.690.00         \$91.81         \$53.45         \$14.67           7720         \$23.090.00         \$14.41.06         \$37.00         \$161.17           777D         \$43.100.00         \$269.38         \$71.54         \$340.78           778C         \$23.090.00         \$183.13         \$50.10         \$21.87           778D         \$43.100.00         \$269.38         \$71.54         \$340.78           778D         \$43.100.00         \$269.38         \$71.54         \$340.78           793C         \$51.66         \$51.68         \$51.68         \$51.68         \$51.68         \$					\$58.
50 Ton Crane         \$12,122.00         \$75.76         \$10.01         \$86.85           120 Ton Crane         \$11.08         \$11.17         \$11.08         \$11.17           Trucks         \$11.08         \$11.17         \$10.01         \$86.85         \$11.17         \$10.01         \$86.95         \$11.27         \$10.01         \$86.95         \$11.27         \$10.01         \$10.01         \$11.27         \$10.01         \$11.27         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01         \$10.01	5 Ton Crane	\$7,933.20	\$49.58	\$6.39	\$55.9
120 Ton Crane         \$11.08         \$11.08         \$11.08           7120 Frucks         514.600.00         \$91.81         \$37.45         \$120           730         \$14.600.00         \$91.81         \$37.45         \$120           730         \$14.600.00         \$91.81         \$32.745         \$130           735         \$14.600.00         \$91.81         \$32.745         \$147           740         \$14.600.00         \$91.81         \$32.52         \$130           740         \$14.600.00         \$91.81         \$52.46         \$144.77           760D         \$22.300.00         \$144.06         \$37.00         \$181           777D         \$43.100.00         \$269.38         \$57.154         \$340           785C         \$33.100.00         \$269.38         \$87.154         \$340           793C         \$35.165         \$51.17         \$36.93         \$88.93           797B         \$31.60         \$37.33         \$38.07         \$51.65           613E (5.000 gal) Water Wagon         \$50.365.84         \$37.33         \$38.07         \$51.65           777D Water Truck         \$35.865         \$51.55         \$51.55         \$51.55         \$51.55         \$51.55         \$51.55					\$84.2
Trucks         S14,690,00         S91,81         S37,45         S129           730         \$14,690,00         \$91,81         S33,45         S129           730         \$14,690,00         \$91,81         S33,52         S130           735         \$14,690,00         \$91,81         S33,52         S130           736         \$14,690,00         \$91,81         S52,19         S144           740         \$14,690,00         \$91,81         S53,45         S145           790D         \$22,050,00         \$144,406         \$37,00         S183,13         S50,10         S233           777D         \$43,100,00         \$269,38         \$71,154         \$340,00         \$269,38         \$51,165         \$51,1733           793C         \$350,79         \$31,250,14         \$122,51         \$126,17         \$126,17         \$126,17         \$126,17         \$126,17         \$126,17         \$126,17         \$126,17         \$126,17         \$126,14         \$122,51         \$125,14         \$125,14         \$125,14         \$125,14         \$125,14         \$125,14         \$125,14         \$125,14         \$125,165         \$11,17         \$177D         \$147,173,13         \$87,33         \$33,07         \$101,177         \$177D         \$126,17<		\$12,122.00	\$75.76		\$85.3
725         \$14.690.00         \$91.81         \$37.45         \$12           730         \$14.690.00         \$91.81         \$38.52         \$130           735         \$14.690.00         \$91.81         \$38.52         \$130           740         \$14.690.00         \$91.81         \$35.26         \$144.72           7690         \$14.690.00         \$91.81         \$55.46         \$144.72           7760         \$14.690.00         \$91.81         \$55.46         \$144.72           7770         \$43.00.00         \$184.31         \$55.46         \$144.72           7770         \$43.100.00         \$269.38         \$71.54         \$340.72           783C         \$269.300.00         \$181.31         \$50.10         \$233.79           793C         \$38.93         \$88.93         \$88.93         \$88.93           797B         \$61.60.00.94         \$12.17         \$81.93         \$38.97         \$16.55           613E (5.00.00.94) Water Wagon         \$10.773.13         \$97.33         \$38.07         \$150.55         \$51.17           777D Water Truck         \$35.865         \$51.95         \$51.10         \$11.900.00         \$7.4.94         \$12.17         \$87.10         \$11.17         \$87.10         \$11.9		-		911.00	φ11.0
730         \$14,680.00         \$91.81         \$33.62         \$13.00           735         \$14,680.00         \$91.81         \$52.19         \$14.00           740         \$14,680.00         \$91.81         \$52.19         \$14.00           7700         \$22,660.00         \$14.40.6         \$37.00         \$181.773           7735         \$20,660.00         \$180.13         \$50.10         \$23.377.00           7736         \$20,660.00         \$180.13         \$50.10         \$23.377.00           77370         \$43,100.00         \$269.38         \$77.54         \$340.77.54           7830         \$88.93         \$88.797         \$12.51.44         \$125.14         \$125.14           7978         \$126.50.00         \$39.79         \$21.67         \$61.81         \$25.67         \$61.81         \$25.777         \$14.777.13         \$67.33         \$38.07         \$10.773.13         \$67.33         \$38.07         \$10.773.13         \$67.33         \$38.07         \$10.777.14         \$21.67         \$61.85         \$51.785         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85         \$51.85		\$14,690.00	\$91.81	\$37.45	\$129.3
740         \$14.690.00         \$91.91         \$53.48         \$14.47           769D         \$23.060.00         \$14.406         \$37.00         \$181           773E         \$20.306.00         \$183.13         \$50.10         \$233           777D         \$43.100.00         \$269.38         \$77.54         \$30.00           785C         \$51.65         \$51         \$51         \$57.00         \$51.85           793C         \$43.100.00         \$269.38         \$77.54         \$30.00         \$51.65         \$51           793C         \$88.93         \$88.93         \$88.93         \$88         \$38.79         \$21.67         \$61           612E (5,000 gal) Water Wagon         \$6.365.04         \$39.79         \$21.67         \$61         \$277D Water Truck         \$35.65         \$55.           777D Water Truck         \$35.65         \$55.         \$55.         \$55.         \$55.         \$55.           777D Water Truck         \$35.65         \$55.         \$55.85         \$55.         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$55.85         \$	730	\$14,690.00	\$91.81	\$38.52	\$130.3
769D         \$23,050,00         \$144,06         \$37,00         \$161           773E         \$23,050,00         \$183,13         \$50,16         \$233           777D         \$43,100,00         \$203,85,016         \$233         \$71:54         \$340,00           785C         \$351,66         \$51         \$551,66         \$51         \$553,65         \$51           793C         \$88,93,36         \$51,26         \$309,09         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$512,61,60         \$51,65         \$51           6212 (6,000,gal) Water Wagon         \$61,073,13         \$57,33         \$33,60,7         \$516,65         \$51           777D Water Truck         \$51,900,00         \$74,94         \$51,65         \$51           Dump Truck (10-12 yd ³ )         \$11,900,00         \$74,94         \$51,21,77         \$87           NOTES:         (1) Preer Equipment Source:         (2) Preer Equipment Source:         (2) Preer Equipment Source:         \$74,94         \$51,217					\$144.0
773E         \$29,300.00         \$183.13         \$50.10         \$233.           777D         \$443,100.00         \$269.38         \$77.154         \$323.           778C         \$51.65         \$51.65         \$51.754         \$329.754         \$389.93         \$88.93           797B         \$52.66         \$51.65         \$51.65         \$51.65         \$51.793.25         \$125.144         \$125.75           613E (5.000 gal) Water Wagon         \$6.365.94         \$39.79         \$22.167         \$61.6216         \$61.33         \$38.07         \$10.57           621E (8.000 gal) Water Wagon         \$6.365.94         \$39.79         \$22.167         \$61.521.67         \$61.521.67         \$61.521.67         \$61.521.67         \$61.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         \$10.57         <					
777D         \$43,100.00         \$269.38         \$77.154         \$340.75           785C         \$51.65         \$51.793C         \$51.65         \$51.793C           793C         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$88.93         \$81.93         \$81.93					\$181.1
785C         \$51.65         \$51.79           793C         \$88.93         \$88.73           797B         \$125.14         \$125.65           613E (5,000 gal) Water Wagon         \$6,365.94         \$39.79         \$21.67           8612E (8,000 gal) Water Wagon         \$10,773.13         \$67.33         \$38.07         \$10.777           77D Water Truck         \$35.68         \$33.785         \$10.85         \$51.65         \$51.           70mp Truck (1-2 yd ³ )         \$11,990.00         \$74.94         \$12.17         \$87.           NOTES:         (1) Power Equipment Source.         (2) Power Equipment Type.         Catepillar model or equivalent, La Tourneau loader, Kornatsu shovels					\$340.9
797B         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.14         \$125.17         \$30.77         \$30.77         \$31.85         \$33.68         \$33.78         \$33.68         \$33.78         \$35.165         \$51.165         \$51.165         \$51.165         \$51.165         \$51.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.165         \$51.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         \$87.89         \$87.17         <					\$51.6
613E (5,000 gal) Water Wagon         \$6,365.94         \$39.79         \$21.67         \$61           621E (6,000 gal) Water Wagon         \$10,77.13         \$67.33         \$38.07         \$105           777D Water Truck         \$30.67         \$105         \$105         \$105           777D Water Truck         \$35.68         \$35         \$35.68         \$35           785C Water Truck         \$11,990.00         \$74.94         \$51.65         \$51.           NOTES:         (1) Power Equipment Source.         (2) Power Equipment Truck         \$20.79         \$21.77			ļ		\$88.9
62:E1 (63:000 gal) Water Wagon         \$10,773.13         \$67.33         \$38.07         \$105.77           777D Vater Truck         \$33.68         \$33         \$36.97         \$105.77         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$107.07         \$1		\$0.005.04	¢20.70		\$125.1
777D Water Truck         \$33.6.8         \$33.5.8         \$33.5.8         \$35.7           785C Water Truck         \$35.1.65         \$51.5         \$51.5         \$51.5         \$57.9           Dump Truck (10-12 yd ¹ )         \$11,990.00         \$74.94         \$12.17         \$87.7           NOTES:         (1) Power Equipment Source:         (2) Power Equipment Type:         Catepillar model or equivalent, LoTourneau loader, Komatsu shovels	621E (8,000 gal) Water Wagon			+=	\$61.4 \$105.4
785C Water Truck         \$51.65         \$51.           Dump Truck (10-12 yd ² )         \$11,990.00         \$74.94         \$12.17         \$87.           NOTES:         (1) Power Equipment Source.         (2) Power Equipment Type. Catepillar model or equivalent, La Tourneau loader, Komatsu shovels         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$61.00         \$			÷:		\$35.6
NOTES: (1) Power Equipment Source. (2) Power Equipment Type: Catepillar model or equivalent, LeTourneau loader, Komatsu shovels				\$51.65	\$51.6
(1) Power Equipment Source: (2) Power Equipment Type: Catepillar model or equivalent, LeTourneau loader, Komatsu shovels			\$74.94	\$12.17	\$87.1
(2) Power Equipment Type: Catepillar model or equivalent, LeTourneau loader, Komatsu shovels	Dump Truck (10-12 yd ³ )	\$11,990.00	\$74.04		
	Dump Truck (10-12 yd ³ ) NOTES:		014.04		
	Dump Truck (10-12 yd ³ ) NOTES: (1) Power Equipment Source			loader, Komatsu sho	vels

# Closure Cost Estimate Equipment Costs

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Date: Version Ser Data Cost Date File: SRCE_Cost_Data_File_1_12_Std_2021.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@ 2.13/gal	Total Hourly Equipment Cost
Bulldozers						
D6R D6R w/ Winch	\$7.86	-	\$5.34	6.25 6.25	\$13.31 \$13.31	\$26.5 \$13.3
D7R	\$7.86		\$5.34	7.50	\$15.98	\$29.1
D8R D9R	\$8.29 \$9.46		\$10.37 \$16.13	9.75 14.25	\$20.77 \$30.35	\$39.4 \$55.9
DIOR	\$9.40		\$22.58	14.25	\$38.34	\$35.9
D11R	\$15.15		\$33.23	26.50	\$56.45	\$104.8
824G		\$0.00		10.75	\$22.90	\$22.9
834G		\$0.00		12.60	\$26.84	\$26.8
844 854G		\$0.00 \$0.00		15.00 19.00	\$31.95 \$40.47	\$31.9 \$40.4
Motor Graders						
120H	\$4.78	\$5.83	\$11.10	4.00	\$8.52	\$30.2
14G/H 16G/H	\$5.95	\$8.74 \$11.13	\$16.05 \$21.92	6.25 7.50	\$13.31 \$15.98	\$44.0
24M				15.50	\$33.02	\$33.0
312C	\$4.49	1	\$4.15	1.88	\$4.00	\$12.6
320C	\$4.79		\$4.79	4.90	\$10.44	\$20.0
325C 330C	\$4.82 \$5.94		\$6.05	6.60 8.20	\$14.06	\$24.9 \$30.0
330C 345B	\$5.94		\$6.65 \$6.81	8.20	\$17.47 \$22.58	\$30.0
365BL				13.20	\$28.12	\$28.1
385BL Scrapers	\$6.61		\$13.94	17.50	\$37.28	\$57.8
631G	\$7.97	\$14.69	\$8.73	15.00	\$31.95	\$63.3
637G	\$13.26	\$14.69	\$10.98	23.75	\$50.59	\$89.5
924G	\$3.97	\$5.60	\$4.76	2.75	\$5.86	\$20.1
928G	\$4.26	\$5.60	\$4.76	3.50	\$7.46	\$22.0
950G 966G	\$5.30 \$5.53	\$5.77 \$7.87	\$8.86	4.00	\$8.52 \$12.25	\$28.4
966G 972G	\$5.53 \$6.25	\$7.87 \$7.87	\$11.11 \$14.08	5.75	\$12.25 \$13.31	\$36.7 \$41.5
980G	\$6.25	\$10.31	\$14.08	7.50	\$15.98	\$46.6
988G 990	\$11.71	\$13.02	\$15.09	12.10 17.00	\$25.77 \$36.21	\$65.6
992G	\$12.97	\$26.18	\$34.64	23.00	\$48.99	\$122.7
994D L2350				36.00 66.00	\$76.68 \$140.58	\$76.6 \$140.5
Shovels				00.00	3140.00	\$140.0
PC2000				37.00	\$78.81	\$78.8
PC3000 PC4000				50.00 70.00	\$106.50 \$149.10	\$106.5 \$149.1
PC5500				119.00	\$253.47	\$253.4
PC8000 Hydraulic Hammers				149.00	\$317.37	\$317.3
H-120 (fits 325)	N/A		\$5.79			\$5.7
H-160 (fits 345)	N/A		\$11.31			\$11.3
H-180 (fits 365/385) Demolition Shears	N/A		\$13.40			\$13.4
S340 (fits 322/325/330)	N/A					\$0.0
S365 (fits 330/345)	N/A N/A					\$0.0
S390 (fits 365/385) Demolition Grapples	N/A					\$0.0
G315 (fits 322/325)	N/A					\$0.0
G320 (fits 325/330) G330 (fits 345/365)	N/A N/A					\$0.0 \$0.0
Other Equipment	190			i		40.0i
420D 4WD Backhoe	\$4.42	\$0.86	\$3.70	3.00	\$6.39	\$15.3
428D 4WD Backhoe CS533E Vibratory Roller	\$4.18	\$0.86	\$3.80 N/A	3.00 3.75	\$6.39 \$7.99	\$15.2
CS633E Vibratory Roller			N/A	4.75	\$10.12	\$10.1
CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor		-	N/A N/A	3.75 4.75	\$7.99 \$10.12	\$7.9 \$10.1
Light Truck - 1.5 Ton		\$0.29	N/A	1.50	\$3.20	\$3.4
Supervisor's Truck	-	\$0.29	N/A	1.00	\$2.13 \$10.01	\$2.4
Flatbed Truck Air Compressor + tools		\$1.61	N/A N/A	4.70	\$10.01	\$11.6
Welding Equipment			N/A	2.00	\$4.26	\$4.2
Heavy Duty Drill Rig Pump (plugging) Drill Rig			N/A N/A	12.00	\$25.56 \$21.30	\$25.5 \$21.3
Concrete Pump			N/A	10.00	\$21.30	\$21.3
Gas Engine Vibrator Generator 5KW			N/A N/A	1.00	\$2.13 \$3.20	\$2.13 \$3.2
Generator 5KW HDEP Welder (pipe or liner)			N/A N/A	2.00	\$3.20 \$4.26	\$3.2
5 Ton Crane			N/A	3.00	\$6.39	\$6.3
20 Ton Crane 50 Ton Crane			N/A N/A	4.00 4.70	\$8.52 \$10.01	\$8.5
120 Ton Crane			N/A	5.20	\$11.08	\$11.0
725	\$8.79	\$15.33	\$3.32	4.70	\$10.01	\$37.4
730	\$8.79	\$15.33	\$3.32	5.20	\$11.08	\$38.5
735 740	\$8.79	\$24.42	\$3.32	7.35	\$15.66 \$15.66	\$52.11 \$53.4
740 769D	\$8.79 \$6.51	\$25.71 \$7.08	\$3.32 \$3.71	7.35	\$15.66 \$19.70	\$53.4i \$37.0i
773E	\$8.05	\$12.86	\$4.16	11.75	\$25.03	\$50.1
777D 785C	\$11.53	\$19.68	\$4.65	16.75 24.25	\$35.68 \$51.65	\$71.5
793C				41.75	\$88.93	\$88.9
797B 613E (5 000 gal) Water Wagon	¢F 07	63.63		58.75 6.00	\$125.14	\$125.14 \$21.6
613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon	\$5.27 \$7.46	\$3.62		10.75	\$12.78 \$22.90	\$21.6
777D Water Truck				16.75	\$35.68	\$35.6
785C Water Truck Dump Truck (10-12 yd3 ) (5)	N/A	\$1.09	N/A	24.25 5.20	\$51.65 \$11.08	\$51.6 \$12.1
Notes:				0.20	211.00	ψ1 <b>2</b> .1
	e: Cashman Equipment C e: Purecell Tire Quote: 20		oted			
	e: Cashman Equipment C		) unless noted			
	e: Caterpillar Handbook,	Edition 35, Ch. 20; a		for smaller vehicles	5	

# Closure Cost Estimate Equipment Costs

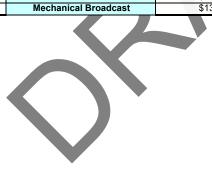
	1	1			1	
		# of Tires Per Piece	Cost		Life Expectency Hours	Tire Cost per
Equipment	Tire Size	of Equipment	Per Tire	Tire Cost (1)(2)	(Low/Zone A) ⁽³⁾	Hour
Bulldozers	1				1	
D6R D6R w/ Winch			N/A N/A			
D7R			N/A			
D8R			N/A			
D9R D10R			N/A N/A			
D11R			N/A			
Wheeled Dozers		•				
824G	29.5R25	4		\$0.00	3,500	\$0.00
834G 844	35/65-R33 45/65-R39	4		\$0.00	3,500 3,500	\$0.00
854G	45/65-R45	4		\$0.00	3,500	\$0.00
Motor Graders	1.	r	-		T	
120H 14G/H	13PR24 20.5R25	6	\$3,400.00 \$5,100.00	\$20,400.00 \$30,600.00	3,500 3,500	\$5.83
16G/H	23.5R25	6	\$6,490.00	\$38,940.00	3,500	\$0.74 \$11.13
24M	23.5R25	6		\$0.00	3,500	
Track Excavators	1	[				
312C 320C			N/A N/A			
325C			N/A N/A			
330C			N/A			
345B			N/A			
365BL 385BL			N/A N/A			
Scrapers						
631G	37.25R35	4	\$14,690.00	\$58,760.00	4,000	\$14.69
637G	37.25R35	4	\$14,690.00	\$58,760.00	4,000	\$14.69
924G	17.5R25	4	\$6,300.00	\$25,200.00	4,500	\$5.60
928G	17.5R25	4	\$6,300.00	\$25,200.00	4,500	\$5.60
950G	26.5R25	4	\$6,490.00	\$25,960.00	4,500	\$5.77
966G	26.5R25	4	\$8,850.00	\$35,400.00	4,500	\$7.87
972G 980G	26.5R25 29.5R25	4	\$8,850.00 \$11,600.00	\$35,400.00 \$46,400.00	4,500 4,500	\$7.87
988G	35/65-33	4	\$14,650.00	\$58,600.00	4,500	\$13.02
990	41.25/70-39	4		\$0.00	4,500	
992G	45/65R45	4	\$29,450.00	\$117,800.00	4,500	\$26.18
994D L2350	55/85R57 55/85R57	4		\$0.00 \$0.00	4,500 4,500	
Shovels	Corcortor			<b>\$0.00</b>	4,000	
PC2000			N/A			
PC3000			N/A			
PC4000 PC5500			N/A N/A			
PC8000			N/A			
Hydraulic Hammers						
H-120 (fits 325)			N/A			
H-160 (fits 345) H-180 (fits 365/385)			N/A N/A			
Demolition Shears			17/6			
S340 (fits 322/325/330)			N/A			
S365 (fits 330/345)			N/A			
S390 (fits 365/385) Demolition Grapples			N/A			
G315 (fits 322/325)			N/A			
G320 (fits 325/330)			N/A			
G330 (fits 345/365)			N/A			
Other Equipment 420D 4WD Backhoe	240/2001 2 40 51 024	2	\$1,282.50	\$2,565.00	3,000	\$0.86
428D 4WD Backhoe	340/80R18-19.5LR24 340/80R18-16.9R28	2	\$1,282.50	\$2,565.00	3,000	\$0.86
CS533E Vibratory Roller		_	N/A		0,000	
CS633E Vibratory Roller			N/A			
CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor			N/A N/A			
Light Truck - 1.5 Ton		4	220	\$880.00	3,000	\$0.29
Supervisor's Truck		4	220	\$880.00	3,000	\$0.29
Flatbed Truck		22	220	\$4,840.00	3,000	\$1.61
Flatbed Truck Air Compressor + tools		22	220 N/A	\$4,840.00	3,000	\$1.61
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig		4	220	\$0.00	3,000	\$1.61
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig			220 N/A N/A			\$1.61
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump			220 N/A N/A	\$0.00	3,000	\$1.61
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator			220 N/A N/A	\$0.00	3,000	\$1.61
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Dnil Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner)		4 4	220 N/A N/A N/A N/A	\$0.00 \$0.00	3,000 3,000	\$1.61
Flatbed Truck Air Compressor + tools Weiding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gase Engine Vibrator Generator SKW HDEP Weider (pipe or liner) 5 Ton Crane		4 4	220 N/A N/A N/A N/A	\$0.00 \$0.00 \$0.00	3,000 3,000 3,000	\$1.61
Flatbed Truck Air Compressor + tools. Welding Equipment Heavy Duty Onli Rig Dump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator SkW HDEP Welder (pipe or liner) + DDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane		4 4	220 N/A N/A N/A N/A	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	3,000 3,000 3,000 3,000 3,000	\$1.61
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane		4 4	220 N/A N/A N/A N/A	\$0.00 \$0.00 \$0.00	3,000 3,000 3,000	\$1.61
Flatbed Truck. All Compressor + tools. Welding Equipment Heavy Duty Drill Rig Permp (Dulgaright) Drill Rig Concrete Pump Gelagaright) Drill Rig Gase Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane Trucks		4 4 4 4 6 6	220 N/A N/A N/A N/A N/A N/A	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	3,000 3,000 3,000 3,000 3,000 3,000 3,000	
Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gase Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 120 Ton	23.5R25 23.5R25	4 4 4 6 6 6	220 N/A N/A N/A N/A N/A N/A S5.110.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,660.00	3,000 3,000 3,000 3,000 3,000 3,000 3,000 2,000	\$15.33
Flatbed Truck. All Compressor + tools. Welding Equipment Heavy Duty Drill Rig Permp (Dulgaright) Drill Rig Concrete Pump Gelagaright) Drill Rig Gase Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane Trucks	23.5R25 23.5R25 26.5R25	4 4 4 4 6 6	220 N/A N/A N/A N/A N/A N/A	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	3,000 3,000 3,000 3,000 3,000 3,000 3,000	\$15.33 \$15.33
Flatbed Truck. Air Compressor + tools. Welding Equipment Heavy Duty Drill Rig Dump (plagging) Drill Rig Dump (plagging) Drill Rig Concrete Pump Gase Engline Vibrator Generator SKW DEP Welder (ple or liner) 5 Ton Crane 20 Ton Crane 20 Ton Crane 20 Ton Crane 20 Ton Crane 725 736 736 736	23.5R25 26.5R25 29.5R25	4 4 4 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A N/A S5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,660.00 \$30,660.00 \$48,840.00 \$48,840.00 \$51,420.00	3,000 3,000 3,000 3,000 3,000 3,000 3,000 2,000 2,000 2,000 2,000	\$15.33 \$15.33 \$24.42 \$25.71
Flatbed Truck.       Alr Compressor + tools.       Weiding Equipment.       Heavy Duty Drill Rig.       Pump (plugging) Drill Rig.       Concrete Pump       Gase Engine Vibrator       Gase Engine Vibrator       Gase Engine Vibrator       Jon Crane       20 Ton Crane       120 Ton Crane       120 Ton Crane       726       730       736       760D	23.5R25 26.5R25 29.5R25 18.00R33	4 4 4 4 6 6 6 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100\$5,100 \$5,1	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30.660.00 \$30.660.00 \$42.450.00	3,000 3,000 3,000 3,000 3,000 3,000 2,000 2,000 2,000 2,000 2,000 6,000	\$15.33 \$15.33 \$24.42 \$25.71 \$7.0
Flatbed Truck. Air Compressor + tools. Welding Equipment Heavy Duty Drill Rig Dump (plagaing) Drill Rig Concrete Pump Gas Engline Vibrator Generator SKW DEE Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 20 Ton Crane 20 Ton Crane 725 730 736 740 7735	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35	4 4 4 6 6 6 6 6 6 6 6 6 6 6	220 NA N/A N/A N/A N/A N/A N/A S5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.100.00 \$5.000.00 \$5.000.00 \$5.000.00 \$5.000.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.0000\$5.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30.660.00 \$30.660.00 \$48.840.00 \$41.420.00 \$42.450.00 \$44.320.00	3,000 3,000 3,000 3,000 3,000 3,000 2,000 2,000 2,000 2,000 2,000 6,000 5,000	\$15.33 \$15.33 \$24.42 \$25.71 \$7.00 \$12.86
Flatbed Truck.       Alr Compressor + tools.       Weiding Equipment.       Heavy Duty Drill Rig.       Pump (plugging) Drill Rig.       Concrete Pump       Gase Engine Vibrator       Gase Engine Vibrator       Gase Engine Vibrator       Jon Crane       20 Ton Crane       120 Ton Crane       120 Ton Crane       726       730       736       760D	23.5R25 26.5R25 29.5R25 18.00R33	4 4 4 4 6 6 6 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100 \$5,100\$5,100 \$5,1	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30.660.00 \$30.660.00 \$42.450.00	3,000 3,000 3,000 3,000 3,000 3,000 2,000 2,000 2,000 2,000 2,000 6,000	\$15.33 \$15.33 \$24.42 \$25.71 \$7.00 \$12.86
Flatbed Truck.           Air Compressor + tools.           Welding Equipment.           Heavy Duty Drill Rig.           Porum (plugging) Drill Rig.           Concrete Pump           Gasa Engine Vibrator:           Generator SkW           HDEP Welder (pipe or liner)           5 Ton Crane           20 Ton Crane           20 Ton Crane           20 Ton Crane           725           736           773E           777D           780C	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R51 40.00R57	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 NA N/A N/A N/A N/A N/A N/A S5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 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5.000 5.000 5.000 4.000	\$15.33 \$15.33 \$24.42 \$25.71 \$7.00 \$12.86
Flatbed Truck           Air Compress + tools           Weiding Equipment           Heavy Duty Drill Rig           Journp (blugging) Drill Rig           Concrete Pump           Gas Engine Vibrator           Gase Engine Vibrator           Ganerator SKW           HDEP Weider (pipe or liner)           50 Ton Crane           20 Ton Crane           120 Ton Crane           120 Ton Crane           725           736           735           740           777D           785C           7936	23.5R25 29.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R51 40.00R57 40.00R57	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A N/A S5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$8,5710.00 \$8,5710.00 \$8,5710.00 \$10,775.00 \$10,775.00 \$10,775.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30.660.00 \$30.660.00 \$51.420.00 \$54.840.00 \$64.840.00 \$64.840.00 \$64.840.00 \$64.800.00 \$65.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.00 \$60.000 \$60.000 \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.0000\$ \$60.000\$ \$60.0000\$ \$60.0	3,000 3,000 3,000 3,000 3,000 3,000 2,000 2,000 2,000 2,000 2,000 2,000 5,000 5,000 5,000 4,000 4,000	\$15.33 \$15.33 \$24.42 \$25.71 \$7.00 \$12.86 \$19.68
Flatbed Truck.           Alr Compressor + tools.           Welding Equipment           Heavy Duly Drill Rig           Pormp (Dulgarging) Drill Rig           Concrete Pump           Gase Engine Vibrator           Generator SkW           HDEP Welder (pipe or liner)           5 Ton Crane           20 Ton Crane           20 Ton Crane           20 Ton Crane           726           730           735           740           773E           773C           785C           793C           613E (5,000 gal) Water Wagon	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R51 40.00R57 40.00R57 23.5R25		220 NA N/A N/A N/A N/A N/A N/A N/A S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 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Flatbed Truck           Ar Compressor + tools           Weiding Equipment           Heavy Duty Drill Rig           Dump (alugaing) Drill Rig           Concreate Pump           Gase Engine Vibrator           Generator SkW           HDEP Weidler (pipe or liner)           5 Ton Crane           20 Ton Crane           20 Ton Crane           20 Ton Crane           725           736           736           7740           778E           777D           785C           793C           793C           793C           793C           793C           793B           613E (6,000 gai) Water Wagon           6214E (6,000 gai) Water Wagon	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R51 40.00R57 40.00R57 23.5R25 33.25R29 27.00R49	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A N/A S5,110.00 \$5,110.00 \$5,110.00 \$5,110.00 \$8,5710.00 \$8,5710.00 \$8,5710.00 \$10,775.00 \$10,775.00 \$10,775.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.484,840,00 \$0.484,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,00 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,000 \$0.544,840,840,840,840,840,840,840,840,840,8	3.000 3.000 3.000 3.000 3.000 2.000 2.000 2.000 2.000 2.000 5.000 5.000 4.000 4.000 4.000 4.000 8.000 8.000	\$15.33 \$15.33 \$24.42 \$25.71 \$7.00 \$12.86 \$19.68
Flatbed Truck           Air Compressor + tools           Weiding Equipment           Heavy Duty Orill Rig           Pormp (plugging) Ohll Rig           Concrete Pump           Gase Engine Vibrator           Generator SkW           HDEP Weidler (plop or liner)           5 Ton Crane           20 Ton Crane           120 Ton Crane           120 Ton Crane           726           735           740           777D           785C           797B           613E (5.000 gai) Water Wagon           621E (6.000 gai) Water Tuck           785C Water Tuck           777D           782E           777B           613E (5.000 gai) Water Wagon           621E (6.000 gai) Water Tuck	23.5R25 26.5R25 18.00R33 24.00R35 27.00R49 33.00R51 40.00R57 40.00R57 23.5R25 33.25R29		220 N/A N/A N/A N/A N/A N/A N/A S5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$6.570.00 \$10.720.00 \$10.720.00 \$10.725.00 \$10.282.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 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Flatbed Truck.           Alr Compressor + tools.           Welding Equipment.           Heavy Duty Drill Rig           Pump (alugaing) Drill Rig           Concrete Pump           Gase Engine Vibrator           Generator SkW           Diff Diff Rig           Pump (alugaing) Drill Rig           Concrete Pump           Gase Engine Vibrator           Generator SkW           DIDE Wielder (gipe or liner)           5 Ton Crane           20 Ton Crane           20 Ton Crane           725           730           736           740           7738           7770           6128 (6,000 gail) Water Wagon           6214 (6,000 gail) Water Wagon           6214 (6,000 gail) Water Wagon           6214 (6,000 gail) Water Wagon           785C           785C           787B           6314 (6,102 yal)           Dump Truck (10-12 yal)	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R51 40.00R57 40.00R57 23.5R25 33.25R29 27.00R49	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 NA N/A N/A N/A N/A N/A N/A N/A S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 S5.110.00 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Flatbed Truck           Alr Compressor + tools           Welding Equipment           Heavy Duty Drill Rig           Pump (alugaing) Drill Rig           Concrete Pump           Gase Engine Vibrator           Generator SkW           HDEF Welder (pipe or liner)           5 Ton Crane           20 Ton Crane           20 Ton Crane           20 Ton Crane           725           730           735           740           7778           612E (6,000 gai) Water Wagon           6212E (10,012 gait)           Y77D Water Truck           785C           7878           6212E (10,012 gait)           6212E (10,012 gait)	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R57 40.00R57 40.00R57 23.5R25 33.25R29 27.00R49 33.00R51	4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A N/A S5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$6.570.00 \$10.720.00 \$10.720.00 \$10.725.00 \$10.282.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 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Flabbed Truck Ar Compressor + tools Weiding Equipment Heavy Duty Dill Rig Pump (plagging) Dill Rig Concrete Pump Gase Engine Vibrator Generator 5KW HDEP Weider (pipe or liner) 5 Ton Crane 20 Ton Crane 735 730 735 735 736 737 736 737 738 738 738 738 738 738 738 738 739 738 739 738 739 738 739 739 738 739 739 739 739 739 739 739 739 739 739	23.5R25 26.5R25 29.5R25 18.00R33 24.00R35 27.00R49 33.00R57 40.00R57 40.00R57 23.5R25 33.25R29 27.00R49 33.00R51 25.00R49 33.00R51	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 N/A N/A N/A N/A N/A N/A N/A S5.110.00 \$5.110.00 \$5.110.00 \$5.110.00 \$6.570.00 \$10.720.00 \$10.720.00 \$10.725.00 \$10.282.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 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<b>Revegetation Materials</b>			
	Seed Mixes		
Seed Mix	Descri	ption	Cost/Acre
lone			
ix 1	Basins		\$302.50
ix 2	Low Hills		\$332.75
ix 3	Uplands		\$363.00
lix 4	Riparian or Custom		\$393.25
Jser Mix 1	Warmer/Drier		\$239.50
User Mix 2	Wetter/Cooler		\$241.00
Jser Mix 3			
Jser Mix 4	Q t/lb	11	0
	Cost/lb	lbs/Acre	Cost/Acre
ser Mix 5 (from Seed Mix sheet		\$25.97	\$0.00
Notes			
	Mulch		
lána	Cost/lb	lbe/A eve	Contillar
Item	Cost/ID	lbs/Acre	Cost/Acre
one	<b>*</b> 0.40		
raw Mulch	\$0.18		
/dro Mulch	\$0.25		
nber Mulch			
Notes			
	Granite Seed \$500 pe	er Ton in 50 lb bag W	/ood (Hvdro) Mulch (
		0	
	Amendments		
Item	Cost/lb	lbs/Acre	Cost/Acre
	1		
one Matter	#0. <b>7</b> 0		<u>۴</u> ۰ ۰۰
rganic Matter eated Sludge	\$0.70		\$0.00
nemical	\$0.60		\$0.00
lemical	<b>\$</b> 0.00		\$U.UU
Notes	Western Nevada Sup	ply \$30 13 per 50 lb	bag 15-15-15 (2021
Notes		, , , , , , , , , , , , , , , , , , ,	Sag 10-10-10 (2021

Description	Cost/50lb bag	Units	Cost/unit*
ement	\$7.95	су	\$37.8
out (Low Grade Bentonite)	\$9.25	су	\$44.
ert Material/Cuttings		су	
		су	
		су	
Jentech Drilling Supply quote (2	2021) Type I,II Cement a	t \$14.95 per 94 lb. b	ag
Jentech Drilling Supply (2021)	3/8 in. Chunk Bentonite I	Hole Plug at \$9.25 p	er 50 lb. bag (5.75
Assumes 1 bag mixes with water	to make 0.21 y3 or 0.16	m3 of grout/cement	slurry.
onitoring Costo			
Ionitoring Costs			
Description	Units	Cost/unit	
			Q
onitor Well Pump	ea.	\$2,760.43	
ampling Supplies	ea.	\$6.45	
	<u>64</u> .	<b>\$0.10</b>	
ater Analysis (Profile I) (1)	ea.	\$411.00	
ach Test (MWMP) w/ analysis	ea.	\$483.40	
BA + S speciation	ea.	\$150.00	
AD Cyanide in water	ea.	\$56.00	
ater Analysis (Profile II) (1)		\$461.00	
	ea. ea.	φ401.00	
	ea.		
	ea.		
LAC Profile 1	ea.	\$156.30	
Pit Lake	ea.	\$257.10	
AP Wells	ea.	\$84.30	
) WET Lab, Reno, Nevada (2021			
ell pump and Sample supply cos	ts adjusted to 2021.		
iginal source unknown.			

Fuel, Etc.		
Description	Units	Cost/unit
Off-road Diesel - delivered (1)	\$/gal	\$2.130
Pickup Truck Mileage	\$/mi	\$0.560
Electical Power	\$/kWh	\$0.070
		l time to diverse for ind
(1) Source: Oil Price Infomration Se Source: Federal Government Vehic	rvice, average annua	al cost including freigr
Source: NV Energy (2021) \$0.0703		121
	•	
		2
	$\bigcirc$	

Revegetation Method				
	Slopes			
Disturbance Type	Seed Application Method	Labor	Equipment	Total
		Cost/Acre	Cost/Acre	Cost/Acre
Waste Rock Dumps	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Heap Leach	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Tailings	Hand Broadcast	\$138.59	\$49.50	\$188.0
Quarries & Borrow Pits	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
	Flat Areas and Und	ifferentiated		
Disturbance Type	Seed Application Method	Labor Cost/Acre	Equipment Cost/Acre	Total Cost/Acre
Exploration Trenches	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Exploration Roads	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Waste Rock Dumps	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Heap Leach	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Tailings	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Quarries & Borrow Pits	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Roads	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Pits	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Haul Material	Mechanical Broadcast	\$138.59	\$49.50	\$188.0
Foundations & Buildings	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Sediment & Drainge Control	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Process Ponds	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Landfills	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Yards, Etc.	Mechanical Broadcast	\$138.59	\$49.50	\$188.09
Revegetation Maintenance	Mechanical Broadcast	\$138.59	\$49.50	\$188.09



#### Closure Cost Estimate Misc. Unit Costs

evegetation										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Materials	Labor	Equipment	Total	Notes
Seeding - Broadcast Hand (1)		acres					\$138.59	\$49.50	\$188.09	
Seeding - Broadcast Mechanical (1)		acres					\$138.59	\$49.50	\$188.09	
Seeding - Drill (1)		acres		365			\$138.59	\$118.80	\$257.39	
Seeding - Hydroseeding (1)				365			\$247.49	\$148.49	\$395.98	
Shrub Planting - bare root 6-10 in (150- 250mm) (2)	02910-400-0561	ea.	1 Clab	365				4	\$0.00	
Tree Planting - bare root 11-16 in (270- 400mm) (3)	02910-400-0562	ea.	1 Clab	260					\$0.00	
Cactus Planting (4)		ea.	1 Clab						\$0.00	
NOTES:										
(1) Seeding Source: S	Source: Kelley Erosion	Control (P	rojected fro	om 2020 quo	te).					
(2) Shrub Source:										
(3) Tree Source:										
(4) Cactus Source:										
uilding and Wall Demolition lourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo						onstruction Da	ta .			
ourly productivity rates and crew composition from Mean	or Costs, Equipment Co	sts and Ma	aterial Cost	ts spreadshe Daily	Daily Output			Premium	Total	Notes
lourly productivity rates and crew composition from Mean Il equipment, labor and material unit costs are from Labo				ts spreadshe	ets	Labor	ta . Equipment	Premium	Total	Notes
ourly productivity rates and crew composition from Mean	or Costs, Equipment Co	sts and Ma	aterial Cost	ts spreadshe Daily	Daily Output			Premium	Total	Notes
lourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo	or Costs, Equipment Co Means Number	sts and Ma	Crew	ts spreadshe Daily Output	Daily Output	Labor	Equipment	Premium		 Notes
Hourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition	Means Number 02220-110-0012	Sts and Ma	Crew B-8	Daily Output 21500	Daily Output	Labor \$0.15	Equipment	Premium	\$0.27	Notes
lourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete	or Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050	Unit C.F. C.F.	Crew B-8 B-8	Daily Output 21500 15300	Daily Output	\$0.15 \$0.22	Equipment \$0.12 \$0.16	Premium	\$0.27 \$0.38	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masony	weans         Number           02220-110-0012         02220-110-0050           02220-110-0080         02220-110-0080           02220-110-0100         02220-110-0500	Unit C.F. C.F.	Crew B-8 B-8 B-8 B-8	Daily Output           21500           15300           20100           20100           14800	Daily Output	\$0.15 \$0.22 \$0.17 \$0.17 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12	Premium	\$0.27 \$0.38 \$0.29	Notes
lourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. masonry Lg. mixed	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500	Unit C.F. C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3	21500 221500 15300 20100 20100 14800 11300	Daily Output	\$0.15 \$0.22 \$0.17 \$0.17 \$0.17 \$0.19 \$0.24	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12	Premium	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masony Lg. mixed Sm. steel Sm. concrete Sm. masony	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0600 02220-110-0650	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F.	B-8           B-8           B-8           B-8           B-8           B-8           B-3           B-3	Daily Output           21500           15300           20100           20100           14800           14800	Daily Output	\$0.15 \$0.22 \$0.17 \$0.17 \$0.19 \$0.24 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16 \$0.12	Premium	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31	Notes
lourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3	21500 221500 15300 20100 20100 14800 11300	Daily Output	\$0.15 \$0.22 \$0.17 \$0.17 \$0.17 \$0.19 \$0.24	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12	Premium	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0600 02220-110-0650	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F.	B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3	Daily Output           21500           15300           20100           20100           14800           14800	Daily Output	\$0.15 \$0.22 \$0.17 \$0.17 \$0.19 \$0.24 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16 \$0.12	Premium	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. steel Sm. concrete Sm. masonry Sm. wood	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650 02220-110-0650	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-8         B-8           B-8         B-3           B-3         B-3	Daily Output           21500           15300           20100           20100           14800           11300           14800           14800	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.17 \$0.19 \$0.24 \$0.19 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12		\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. steel Sm. steel Sm. steel Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0600 02220-110-0600 02220-110-0600 02220-110-0700 02220-130-2000	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-8         B-3           B-3         B-3	Daily Output           21500           15300           20100           20100           14800           14800           14800           14800	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.17 \$0.19 \$0.24 \$0.19 \$0.19 \$0.19 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12	20%	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31 \$0.31 \$0.31	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick	weans         Equipment         Contemport           02220-110-0012         02220-110-0050         02220-110-0050           02220-110-0080         02220-110-0080         02220-110-0500           02220-110-0600         02220-110-0650         02220-110-0650           02220-110-0650         02220-110-0700         02220-110-0700           02220-130-2000         02220-130-2000         02220-130-2040	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-8         B-3           B-3         B-3           B-3         B-3           1         Clab           1         Clab	ts spreadshe Daily Output 21500 15300 20100 20100 14800 14800 14800 14800	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.19 \$0.24 \$0.19 \$0.24 \$0.19 \$0.19 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.2 \$0.00 \$0.00 \$0.00	20%	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31 \$0.31 \$2.54 \$2.69	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick	weans         Number           02220-110-0012         02220-110-0050           02220-110-0050         02220-110-0050           02220-110-0500         02220-110-0500           02220-110-0650         02220-110-0650           02220-110-0650         02220-110-0700           02220-130-2000         02220-130-2000           02220-130-2000         02220-130-2000           02220-130-2000         02220-130-2080	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-3         B-3           B-3         B-3           1 Clab         1 Clab           1 Clab         1 Clab	s spreadshe Daily Output 15300 20100 20100 14800 14800 14800 1800 1200 150	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.17 \$0.24 \$0.19 \$0.24 \$0.19 \$0.19 \$0.19 \$0.19	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00	20% 20% 20%	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31 \$0.31 \$0.31 \$2.54 \$2.69 \$3.05	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. steel Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick Block 8 in (200 mm) thick	Means Number           02220-110-0012           02220-110-0050           02220-110-0050           02220-110-0080           02220-110-0500           02220-110-0600           02220-110-0650           02220-110-0700           02220-130-2000           02220-130-2000           02220-130-2000           02220-130-2080           02220-130-2080           02220-130-2080	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-8         B-3           B-3         B-3           B-3         D-3           I Clab         1 Clab           1 Clab         1 Clab	ts spreadshe Daily Output 21500 15300 20100 20100 20100 14800 14800 14800 14800 14800 14800 150	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.19 \$0.24 \$0.19 \$0.19 \$0.19 \$0.19 \$2.12 \$2.24 \$2.54	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	20% 20% 20% 20%	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.30 \$0.31 \$0.31 \$0.31 \$0.30 \$0.31 \$0.31 \$0.30 \$0.31 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick Block 8 in (200 mm) thick Conc 6 in (150 mm) thick	r Costs, Equipment Co Means Number 02220-110-0012 02220-110-0050 02220-110-0500 02220-110-0600 02220-110-0600 02220-110-0650 02220-110-0600 02220-110-0700 02220-130-2000 02220-130-2040 02220-130-2100 02220-130-2400	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-8         B-3           B-3         B-3           1 Clab         1 Clab           1 Clab         B-9	ts spreadshe Daily Output 21500 15300 20100 20100 14800 14800 14800 14800 14800 14800 14800 14800 14800 14800 150 150	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.19 \$0.24 \$0.24 \$0.24 \$0.19 \$0.19 \$0.19 \$0.19 \$0.19 \$0.19 \$0.24 \$2.54 \$2.54 \$2.54 \$2.54 \$2.54 \$1.760	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1.92	20% 20% 20% 20% 10%	\$0.27 \$0.38 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31 \$0.31 \$2.54 \$2.69 \$3.05 \$3.05 \$3.05 \$3.05	Notes
iourly productivity rates and crew composition from Mean all equipment, labor and material unit costs are from Labo Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. steel Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick Block 8 in (200 mm) thick	Means Number           02220-110-0012           02220-110-0050           02220-110-0050           02220-110-0080           02220-110-0500           02220-110-0600           02220-110-0650           02220-110-0700           02220-130-2000           02220-130-2000           02220-130-2000           02220-130-2080           02220-130-2080           02220-130-2080	sts and Ma Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.F	B-8         B-8           B-8         B-8           B-8         B-3           B-3         B-3           B-3         D-3           I         Clab           1         Clab           1         Clab           1         Clab	ts spreadshe Daily Output 21500 15300 20100 20100 20100 14800 14800 14800 14800 14800 14800 150	Daily Output	Labor \$0.15 \$0.22 \$0.17 \$0.19 \$0.24 \$0.19 \$0.19 \$0.19 \$0.19 \$2.12 \$2.24 \$2.54	Equipment \$0.12 \$0.16 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	20% 20% 20% 20%	\$0.27 \$0.38 \$0.29 \$0.29 \$0.31 \$0.40 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.31 \$0.30 \$0.31 \$0.31 \$0.31 \$0.30 \$0.31 \$0.31 \$0.30 \$0.31 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.31 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30 \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30\$ \$0.30	Notes

Init rates from Means Heavy Construction 2006 Edition b	by permission of R.S.Mea	ans/Reed	Constructi		I					-		
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment		Total		Notes	
ubbish Handling												
Dumpster delivery (average for all sizes)	02220-350-0910	ea.			\$49.00				\$49.00			
Haul (average for all sizes)	02220-350-0920	ea.			\$153.00				\$153.00			
Rent per month (average for all sizes)	02220-350-0940	ea.			\$52.00				\$52.00			
Disposal fee per ton (tonne) (average for all sizes)	02220-350-0950	ton			\$57.50			-	\$57.50			
NOTES:	-		-				-					
Dumpster Cost Source												
Dumpster Disposal Fee Source:		truction (2	2021 Q2).									
azardous Material Handling - Solids (+ Liqui												
Pickup fees 55 gal (200 L). drums		ea.			\$249.00			Í	\$249.00			
Bulk material (average)		ton			\$406.00				\$406.00	)		
Transport - truck load (80 drums, 25 cy (m3), 18 tons)		mile			\$5.84				\$5.84			
Dump site solid disposal fee	02110-300-6000/6020	ton			\$285.00				\$285.00			
NOTES:										-		
Solid Handling Cost Source										-		
Solid Disposal Fee Source:	2021 Q2 R.S. Means He	avy Cons	t. ave. 02 8	31								
azardous Material Handling - Liquids				-								
Vacuum Truck Pickup (2200 gal/8300 L)	02110-300-3110	hr.			\$145.00				\$145.00			
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3120	hr.			\$211.00				\$211.00			
Dump site liquid disposal fee	02110-300-6000/6020	ton			\$285.00				\$285.00			
NOTES:												
Liquid Handling Cost Source												
Liquid Disposal Fee Source:	2021 Q2 R.S. Means He	avy Cons	t. ave. 02 8	31								
ydrocarbon Contaminated Soils (HCS)				-								
	02115-200-2020/2021	C.Y.			\$16.14		~		\$16.14			
	02115-200-2050/2055	C.Y.			\$278.00				\$278.00			
NOTES:										-		
Insitu Treatement Cost Source										1		
HCS Disposal Fee Source:	2021 Q2 R.S. Means He	avy Cons	t., ave. 02	65						1		

Concrete Structure Installation										
Weekly dumpster rental rates from Means Heavy Construe Weekly dumpster rental rates include haul to off-site dispos			by R.S.M	eans/Reed C	Construction Data	1.				
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Reinforced Concrete Bulkheads and Shaft Cor	vers									
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high	03310-240-4300	C.Y.	C-14D	80.02	\$157.00	\$145.01	\$10.74		\$312.75	includes reinforcing
Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high	03310-240-4350	C.Y.	C-14D	26.2	\$157.00	\$442.88	\$32.79		\$632.67	includes reinforcing
Elevated conc, 1-way beam & slab - 15ft (4.6m) span	03310-240-2700	C.Y.	C-14B	20.59	\$310.00	\$573.99	\$41.73			includes reinforcing
Elevated conc, 1-way beam & slab - 25ft (7.5m) span	03310-240-2750	C.Y.	C-14B	28.36	\$287.00	\$416.73	\$30.30		\$734.03	includes reinforcing
Bat Gate/Foam Plug Installation										
Bat Gate (5)		ea.			\$3,333.80					materials \$/ea. Installed
Culvert Gate (5)		ea.			\$6,667.61					materials \$/ea. Installed
Adit Foam Plug (6)		ea./C.Y.			\$333.38					materials \$/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			\$333.38					materials \$/cy placed
NOTES:										_
(5) Bat Gate Source:										
(6) Foam Plug Source:	NV BLM, 2/2006: 8 hr+	1hr mob/de	emob + 1h	r setup per a	dit; 16 hrs per p	oduction oper	ning (adjusted to	2021)		
						-				



isc. Linear Projects		0005 E								
lourly productivity rates and crew composition from Mear						onstruction Dat	a.			
Il equipment, labor and material unit costs are from Labo	r Costs, Equipment Co	sts and Ma	aterial Cost		ets					
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
encing Installation										
Barbed 3-strand	02820-170-1650	L.F.	B-80A	760	\$0.54	\$1.51	\$0.31		\$2.36	
Barbed 4-strand	extrapolated	L.F.	B-80A	570	\$0.72	\$2.01	\$0.41		\$3.14	
Barbed 5-strand	02820-130-0920	L.F.	B-80A	456	\$0.90	\$2.51	\$0.51		\$3.92	
Chain link 8-10ft (2.5-3m) Install	02820-130-0920	L.F.	B-80C	180	\$43.50	\$6.36	\$1.30		\$51.16	
Wood stockade fence 6 ft (2 m) high - Install	02820-510-1240	L.F.	B-80C	150	\$17.15	\$7.63	\$1.56		\$26.34	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
encing Removal										
Barbed 3-strand Removal	02220-220-1600	L.F.	2 Clab	430		\$1.77	\$0.54		\$2.31	
Barbed 4-strand Removal	extrapolated	L.F.	2 Clab	355		\$2.15	\$0.66		\$2.81	
Barbed 5-strand Removal	02220-220-1650	L.F.	2 Clab	280		\$2.73	\$0.84		\$3.57	
Chain link 8-10 ft (2.5-3 m) Removal	02220-220-1700	L.F.	B-6	445		\$2.99	\$0.91		\$3.90	
Wood, all types 4-6 ft ("1.5-2 m) high - Removal	02220-220-1775	L.F.	2 Clab	430		\$1.77	\$0.54		\$2.31	
, ,, , , , ,	user	L.F.								
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
ulvert Removal										
12 in (300 mm ) Diameter	02220-220-2900	L.F.	B-6	175		\$7.60	\$2.32		\$9.92	
18 in (450 mm) Diameter	02220-220-2930	L.F.	B-6	150		\$8.86	\$2.70		\$11.56	
24 in (600 mm) Diameter	02220-220-2960	L.F.	B-6	120		\$11.08	\$3.38		\$14.46	
36 in (1m) Diameter	02220-220-3000	L.F.	B-6	90		\$14.77	\$4.51		\$19.28	
peline Removal							·			
0.75 in (20mm) - 4 in (100 mm) diameter	02220-381-1600	L.F.	B-20	700		\$2.16	\$0.33		\$2.49	
6 in (150 mm) - 8 in (200 mm)	02220-381-1700	L.F.	B-20	500		\$3.02	\$0.47		\$3.49	
10 in (250 mm) - 18 in (450 mm)	02220-381-1800	L.F.	B-20	300		\$5.04	\$0.78		\$5.82	
20 in (500 mm) - 36 in (1 m)	02220-381-1900	L.F.	B-20	200		\$7.56	\$1.17		\$8.73	
pe and Drainpipe Installation										
Water 4in (100mm) 40ft (12m) length, welded HDPE	02510-760-0100	L.F.	B-22A	400	\$3.01	\$5.73	\$4.69		\$13.43	
Water 4in (150mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A	380	\$5.25	\$6.03	\$4.94		\$16.22	
Water 12in (300mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A B-22A	260	φJ.25	\$0.03	\$7.22		\$16.03	
Drain 4in (100mm) perforated PVC	02620-630-2100	L.F.	в-22А В-14	315	\$2.08	\$9.03	\$1.55		\$12.66	
Drain 4in (100mm) periorated PVC	02620-630-2100	L.F.	B-14 B-14	315	\$2.08	\$9.03	\$1.62		\$15.10	
Drain 4in (100mm) corrugated, perf or plain	02620-660-0040	L.F.	2 Clab	1200	\$4.00	\$9.46	\$1.62		\$1.60	
Drain 4in (100mm) corrugated, perf or plain Drain 6in (150mm) corrugated., perf or plain	02620-660-0040	L.F.	2 Clab 2 Clab	900	\$0.76	\$0.85	\$0.20		\$2.82	

#### Closure Cost Estimate Misc. Unit Costs

Ducin Deals Duce question										
rain Rock Preparation		-								
Crushing		C.Y.							\$0.50	
Screening		C.Y.							\$0.50	
TOTAL									\$1.00	
Aisc.										
Backhoe work	02210-700-0120	C.Y.	B-11M	28		\$20.53	\$9.02		\$29.55	
Powerline and Transformer Removal										
Single Pole		mile	1		1 1				\$46,333.89	
Double Pole		mile							\$52,953.02	
Transformer (9)		ea.							\$58,405.11	
1-7										
NOTES:			·							
(7) Single Pole Source: N	V Energy estimate (20	009) Adjus	ted to 2021							
(8) Double Pole Source: N										
(9) Transformer Source: N										
rosion and Sedimentation Control										
Hourly productivity rates and crew composition from Mean	e Heavy Construction	2005 Editi	on by perm	ission of P S	Means/Reed C	onstruction Do	ta	_		
All equipment, labor and material unit costs are from Labo						JIISTIUCTION Da	La .			
All equipment, labor and material unit costs are from Labo	i Coais, Equipinent Co			Daily						
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Premium	Total	Notes
Rip-Rap & Rock Lining					1				I ··· I	
	02370-450-0110	0.1/	D 40	00	¢04.00	¢05.55	¢0.40		¢07.00	
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted		S.Y.	B-13	80	\$24.00	\$35.55	\$8.43		\$67.98	assumes on-site source of rip-rap
Rip-Rap 18 in (450 mm) min thick, no grout	02370-450-0200	S.Y.	B-13 B-13	53 200	\$7.00 \$6.15	\$53.67 \$14.22	\$12.72 \$3.37		\$73.39 \$23.74	assumes on-site source of rip-rap
Gabions, 6 in (150 mm) deep	02370-450-0400	S.Y.	-							assumes on-site source rock fill for gabions
Gabions, 9 in (250 mm) deep	02370-450-0500	S.Y.	B-13	163	\$9.20	\$17.45	\$4.14		\$30.79	assumes on-site source rock fill for gabions
Gabions, 12 in (300 mm) deep	02370-450-0200	S.Y.	B-13	153	\$12.55	\$18.59	\$4.41 \$6.61		\$35.55	assumes on-site source rock fill for gabions
Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep	02370-450-0200 02370-450-0200	S.Y. S.Y.	B-13 B-13	102 60	\$15.90 \$26.00	\$27.89 \$47.41	\$6.61 \$11.24		\$50.40 \$84.65	assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
IDEP Liner Installation	02370-450-0200	S.T.	D-13	60	\$20.00	\$47.41	\$11.24		\$64.00	assumes on-site source fock hill for gabions
Finish grading large area	2310-100-0100	S.F.	B-11L	18000		\$0.05	\$0.06		\$0.11	
Compaction-riding, vibrating roller - 12in (300mm) lifts	2315-310-5100	C.Y.	B-10Y	2600		\$0.36	\$0.18		\$0.54	
60 mil HDPE	2660-610-0010	S.F.	3 Skwk	1600	\$0.44	\$1.08	\$0.45		\$1.97	
80 mil HDPE	user	S.F.	3 Skwk	149		\$11.64	\$4.85		\$16.49	
40 mil VLDPE	user	S.F.	3 Skwk	150		\$11.56	\$4.82		\$16.38	
	user	S.F.	3 Skwk	149		\$11.64	\$4.85		\$16.49	
	user	S.F.	3 Skwk	149		\$11.64	\$4.85		\$16.49	
Construction Management Support										
Office Trailer, Furnished, no hook-ups	0150-500-0250	mo.	1		\$199.00		1		\$199.00	
Toilet Portable, chemical	1590-400-6410	mo.	1		\$217.20				\$217.20	
TOTAL				1	\$416.20				\$416.20	
Pump and Casing Removal				_						
		1			[ [ ]	1	[			
Pump Type	Measurement	Unit				Labor	Equipment		Total	Notes
Pump Removal										
Submersible f	t to pump	L.F.				\$9.72	\$22.82		\$32.54	
Line Shaft f	t to pump	L.F.				\$9.72	\$22.82		\$32.54	
NOTES:										
(10) Pump Removal Source:	Boart Longyear Quote:	2021								
i										

#### Closure Cost Estimate User 1

Project Name: CHMRP Surface Reclamation Cost Estimate - Reclamation Plan Date of Submittal: May 2022 File Name: Surface Reclamation_SRCE_Version_1_4_1_017_NV_2021_Costs.xlsm Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_Data_File_1_12_Std_2021.xlsm Cost Estimate Type: Surety Cost Basis: Northern Nevada

2021 MOB/DEMOB usin blue font is for project specific user input							Mile	es from V	Vasl	hoe Cou	inty	Courtho	use to proje	ect, one	way	
Cunningham F	HIL SI	urface F	Recla	mation	1	_	_	Miles fro	m e	quipmer	nt re		d to project, s travel time			0.
			5	21				(4)				1100	o a aver and	. (9		
		8	1 peop		ampty			Disassembly and assembly								
		Mobilization S/hour (1)	C Elat Bato lood 8. maland	5	S/hour Deadhead (empty	<i>r</i> .		ind ass		(2)						
		ation	of oto		Deadh			mbly a		Permit cost \$ (5)		Pilot car costs	N			Total Mol
		silicio	C  +   D		S/hour Dea	5		sassei		emit		ot car	# of units	One	Nay	and Demo
Equipment		Σ	U	<b>`</b>	ŝ	<u> </u>		ä		ě.		2	*	Mob	Lost	Cost
D6R	\$	100	\$	100	\$	100	s		ŝ	12	\$			1\$	12	\$
D7R	\$	130		130		130	\$		\$	25	\$	98	4		,011	\$ 4,0
D8R	\$	152		152		152	\$		\$	25	\$	196		\$		\$
D9R	\$	152		152			\$	-	\$		\$	196		\$		\$
D10R D11R (two transports) (7)	\$ \$	152 152	\$ \$	152 152				67,200 139,200	s	25 25	\$ \$	294 196		\$ 67	965	\$ 68,7 \$
lotor Graders	\$	192	-P	102	\$	1.02	*	135,200		2.5	\$	196	4	1 -		-P
14G/H	\$	100	\$	100	\$	100	\$		ŝ		\$		1	1 \$	-	\$
16G/H	\$	130	\$	130	\$	130	\$		ŝ	25		98	1		503	\$ 1,0
rack Excavators																
320C	\$	130		130		30	\$		\$	-	\$			\$		\$
325C 345B	\$ \$	130 152		130 152			\$ \$	-	Ś	- 25	\$ \$	196	1	\$ \$	667	\$ 5 1.3
345BL	\$		э \$				5	49.200	s	25	\$	196		\$		\$ 1,3 \$
crapers		192	-	102			1		*		*			- · ·	_	
631G	\$	152		152		152			\$	25		196			,666	
637G PP	\$	152	\$	152		152	\$		\$		\$	196		\$		\$
Vheeled Loaders		12/12/2											-	1.		
928G 966G	\$	100		100			\$ \$		\$ \$	-	\$	-	4	\$	.168	\$ \$ 2.3
972G	\$		Ф \$			130	ŝ	-	ş	2	\$		4	\$		\$ 2,0
988G	\$	130		130		130	\$		ŝ	25	\$	98		\$		\$
992G (two transports) (7)	\$	152	\$	152	\$	152	\$	78,000	\$	25	\$	196	6	\$		\$
lydraulic Hammers													-			
H-120 (fits 325) no charge, mobilize with mach H-160 (fits 345) no charge, mobilize with mach	\$	-	\$	-	5 5	-	5 5	-	s s	-	\$	-		\$ \$		\$ \$
H-160 (fits 345) no charge, mobilize with mach H-180 (fits 365/385) no charge, mobilize with n	2		\$ \$		3		5		s		\$ \$			ŝ		\$ \$
Other Equipment			÷		-		Ť		,		÷			1 *		*
420D 4WD Backhoe	\$	100	\$	100	\$	100	\$		Ś		\$		1	\$		\$
CS563E Vibratory Roller	\$	100		100		100	\$	5	\$	-	\$	-		\$		\$
Light Truck - 1.5 Ton	\$	74					\$		\$	-	\$			\$		\$
Supervisor's Truck Air Compressor + tools	\$ \$		\$	72 83	\$ ·	83	\$ \$	-	s s	-	\$	- 3	-	\$ \$		\$ \$
Welding Equipment	\$		\$	83		83	\$		ŝ		\$			ŝ		\$
Heavy Duty Drill Rig	\$		\$	268	\$ .		\$	-	\$		\$			\$		\$
Pump (plugging) Drill Rig	\$		\$		\$ .		\$		\$	14	\$	- 12		\$		\$
Concrete Pump	\$	83		83	-	83	\$	-	\$		\$	-		\$		\$
Gas Engine Vibrator Generator 5KW	\$ \$	83 83	\$	83 83	\$	83 83	\$ \$	-	s s	-	\$	3		\$ \$		\$ \$
HDEP Welder (pipe or liner)	\$	83		83		83	ŝ		ŝ		\$	1		\$		\$
5 Ton Crane Truck	\$	123	\$				\$		\$	12	\$			\$	10	\$
25 Ton Crane	\$	146	\$	146	\$ .	2	\$		\$		\$	-		\$	~	\$
rucks	\$	105		400					Ś				-	1 \$ 1	100	
725	\$ \$	100 130	\$ \$	100		100	\$ \$	-	s	25	\$	- 96	4	\$ 1 \$	,168	\$ 2,3 \$
769D	\$	130		130			9 5		s	25	\$	196		\$		5 \$
777D (two transports) (8)	\$	152		152			\$	74,400	ş	25	\$	294		\$		\$
613E (5,000 gal) Water Wagon	\$		\$	152		152	\$	-	s	-	\$	-		\$		\$
621E (8,000 gal) Water Wagon	\$	152		152		152	\$		\$	25	\$	196		\$		\$
Dump Truck (10-12 yd [#] ) liscellaneous	\$	112	\$	112	\$	12	\$		\$	2	\$			\$	1070	\$
iscellaneous outoment for dry hole abandonment (420D 4W)	\$	100	\$	100	\$	INN	s		Ś		\$		_	1 5		\$
Pilot car (Light Truck)	\$	73		73		73	ŝ		ŝ		\$	-		\$		\$
Truck Tractor + Lowbed Trailer 75 ton	\$	152		152		152	\$		ŝ	12	\$			\$		\$
Truck Tractor + Flatbed Trailer 40 ton	\$	130		130		130	\$		\$	10	\$	1	j.	\$		\$
Light Truck + Flatbed Trailer 25 ton	\$	83	\$	83	\$	83	\$	- 6	\$	12	\$			\$		\$
													19			\$ 85,0
ootnotes and explanations of assumptions ) The sum of the cost of equipment from eithe	er the	SPCE	or RS	SM equ	inmen	ttah	nlu	s Davis J	laco	on labor	tah					
<ol> <li>Assumes minimum of 30 minutes load and :</li> </ol>																
<ol> <li>No "Deadhead" (empty) charge for Mob up t</li> </ol>	to 50	miles.	More	than 5	i0 mile	s the	COS	t of dead	ihea	ad same						
4) Only large equipment requires disassembly	fortr	ansport	. Incl	udes d	cost of	mec	hani	c + mech						ine.		
5) Nevada Dept. of Transportation overdimens								r year.								
<ol> <li>Sum of mobilization plus all ancillary costs f</li> <li>Two transports are required but the second</li> </ol>								rmite ee :	a hr		u terr	ilor				
<ol> <li>Two transports are required but the second</li> <li>Two transports required with both requiring f</li> </ol>	u aris) Tull co	port d0i Implem	es no ent o	need finilint (	phul C cars ar	ars 0 dine	⊧µe rmit	mills of a s	a ne	avy uuty	y ua	ner.				
<ol> <li>For large mining operations, mobilization ma</li> </ol>	ay be	require	d from	n more	e than	one l	oca	tion. For	exa	ample, th	ne E	iko yaro	i may not ha	ave four	631 s	crapers.
Additional equipment may need to mobilize	from	Reno,	Las \	egas,	or Sal											20 20
10) Pilot Car costs based on SRCE light truck	costs	and D	avis-E	acon	wages											
1) SRCE costs based on July 2021 vendor que																
<ol> <li>RS Means costs based on R.S. Means Heat</li> <li>Davis Bacon wages based on 2021 determ</li> </ol>			uon C	ost Da	ata, 20	27 Q	2									
TO, DOVIS DOCUT WOYES DOSED UN 2021 DETERM	math	urt.														

iff/Jennifer Ortega\Cunningham Hill\20210801_2021_mob_demob_CH Surface Reclamation