



**General Plan of Operations
Appendix 14
Reclamation and Closure Plan**

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Acronyms

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish & Game
ADNR	Alaska Department of Natural Resources
APDES	Alaska Pollutant Discharge Elimination System
AWQS	Alaska Water Quality Standards
AS	Alaska Statute
BMP	Best Management Practices
FEIS	Final Environmental Impact Statement
GPO	General Plan of Operation
HGCMC	Hecla Greens Creek Mining Company
HMC	Hecla Mining Company
ML/ARD	Metal Leaching and Acid Rock Drainage
MOU	Memorandum of Understanding
MSHA	U.S. Department of Labor Mine Safety and Health Administration
NEPA	National Environmental Policy Act
Plan	Reclamation and Closure Plan Record of Decision
SAG	Semi-autogenous
SRCE	Standard Reclamation Estimate Model
TDF	Tailings Disposal Facility
USFS	U.S. Forest Service
WDF	Waste Disposal Facility
WMP	Waste Management Permit
WRD	Waste Rock Disposal
WTP	Water Treatment Plant

Units of Measure

amsl	above mean sea level
°F	Fahrenheit
ft	feet/foot
H:V	ratio of horizontal to vertical distance
kg/ha	kilograms per acre
lbs.	pounds
tpd	tons per day
yd ³	cubic yards

1. INTRODUCTION

1.1. Purpose

Hecla Greens Creek Mining Company (HGCMC) a wholly owned subsidiary of Hecla Mining Company (HMC), has prepared this Reclamation and Closure Plan (Plan) to address interim, concurrent, final reclamation and post-mining land use of the Greens Creek Mine. These reclamation plan and closure cost estimates are being submitted to the U.S. Forest Service (USFS) as required under 36 CFR 228.1 et. seq. and 36 CFR 228A (Training Guide for Reclamation Bond Estimation and Administration 2004). Concurrently, the plan and cost estimate are being submitted to the Alaska Departments of Natural Resources, Division of Mining, Land and Water (ADNR) and Environmental Conservation, Division of Water (ADEC) in accordance with AS 27.19, 11 AAC 97, 11 AAC 93, AS 46.03.100, and 18 AAC 60.265.

The Plan sets performance goals applicable to interim, concurrent, and final reclamation, and addresses post-closure monitoring requirements. It also sets scheduling and other standards for reclamation and for final closure planning requirements, and it explains how detailed, regularly updated reclamation task planning will be used for purposes of calculating a reclamation bond.

Prior to closure of the mine facilities, this Plan provides performance goals and general information on how HGCMC anticipates the facilities will be reclaimed. The Basis of Cost Estimate, which is included in Attachment B of this Plan, serves as a surrogate for the final closure condition and provides detailed assumptions necessary to develop a cost estimate for bonding purposes. Prior to actual closure, the Basis of Cost Estimate also assumes a default condition where the regulatory agencies are responsible for closure of the facilities. At closure, this Plan and the Basis of Cost Estimate will be updated based on the actual conditions that exist at the time and will become the final Plan and Basis of Cost Estimate.

HGCMC will reclaim exploration, development, mining and process-related disturbances at the Greens Creek Mine in a manner compatible with the land use selected and discussed herein. Reclamation practices will utilize best practicable established and accepted technologies and methodologies suitable for the southeast Alaska environment.

As generally discussed in the previous reclamation plan submittals, reclamation philosophies, technologies, and methodologies are, and will continue to be, subject to change. Reclamation practices are under constant scrutiny by government, industry, and the public. Therefore, reclamation plans must be, within the context of existing regulations, dynamic and capable of changing with the input of new information, ideas, and techniques (11 AAC 97.330 Amendment of Reclamation Plan).

When practical, final reclamation will be initiated immediately and completed within three years of permanent cessation of mining and milling operations where affected land cannot practicably be reclaimed concurrently. There may be circumstances where a holding period (care and maintenance with no active work) is necessary or where more than three years will be required to perform the work. Notification, in writing, of final closure will be given to the USFS, ADEC, and ADNR within 90 days prior to cessation of mining and milling operations.

Access by Federal and State regulatory personnel to the Greens Creek Mine facilities for the purpose of inspecting for reclamation or other appropriate compliance areas are statutory/regulatory mandates and will be honored by HGCMC.

1.2. Project Summary

The Greens Creek Mine has been in operation since 1989, with one temporary cessation of operations due to low metal prices from April 1993 until July 1996. HGCMC produces three concentrates containing four payable metals (silver, zinc, lead, and gold) for shipping to smelters around the world.

The mine has an estimated remaining mine life of over 10 years at a current processing rate of approximately 2,250 tons of ore per day. The project employs over 520 full-time employees to operate the mine and processing facilities.

1.3. General Environmental Information

The Greens Creek Mine facilities are located from sea level to 1,350 ft (amsl) above the main mine portal and mill complex. The area is characterized as a temperate rain forest considering annual precipitation and temperature. The regional annual precipitation at sites near sea level is between 40 inches (Angoon) and 225 inches (Port Walter). The air temperature at the project site is heavily influenced by the coastal marine environment, which has a moderating effect on temperature extremes. The annual average temperature at the project site is generally in the low forties degrees Fahrenheit, with daily maximum and minimum one-hour average temperatures occasionally exceeding 80°F and 0°F, respectively.

The Greens Creek Mine facilities are located within the Greens Creek, Zinc Creek, Tributary Creek, Cannery Creek and Fowler Creek watersheds.

There is no known regional aquifer system in the area, but groundwater resources occur under a wide range of conditions. The many small drainages and irregular topography and geology make for numerous small-scale aquifers and groundwater flow systems. Groundwater can be found in manmade fill, peat, sand, gravel, till, and fractured bedrock aquifers. Confining materials include silt and clay.

Groundwater flow systems at the project area are complex. Flow systems are driven by local precipitation and snowmelt and the local terrain. With average annual precipitation at the site of approximately 53 inches, a surplus of water is frequently available for groundwater recharge. Much of the annual precipitation runs off from saturated or low-permeability surfaces in the area.

Air quality in the vicinity is good. Sites are generally classified as to whether they attain or fail to attain air quality standards. The project site area has been designated as having attained such standards, based on available ambient data for all criteria pollutants.

1.4. Location and Land Status

The Greens Creek Mine is located near Hawk Inlet on northern Admiralty Island, in the Tongass National Forest, approximately 18 miles southwest of Juneau, Alaska (Figure 1). The Mine site is situated partly within the Admiralty Island National Monument, completely within the municipal boundaries of the City and Borough of Juneau and comprised of federal and patented mining claims.

The USFS has issued special use permits/leases for various aspects of the operations. In addition, HGCMC holds 122 patented and 498 unpatented mining claims plus fee simple lands consisting of approximately 17 acres of uplands and 21 acres of tidelands in Hawk Inlet under a warranty deed with Bristol Resources, Inc. The patented mining claims will be conveyed to the United States at the end of mine life or in 2095 at the latest. In addition to patented and unpatented claims HGCMC also holds the mineral rights on 7,301 acres of federal land acquired through a land exchange with the United States Forest Service. The total land package encompasses approximately 16,000 acres.

1.5. Agency Requirements

1.5.1. United States Forest Service (USFS)

The USFS has numerous reclamation requirements for the Greens Creek Mine. These requirements can be categorized as general USFS mining rules, Forest and Monument specific rules, and decisions reached through the National Environmental Policy Act (NEPA) review process.

General Forest Service Mine Reclamation Requirements

- CFR 36 Part 228 Minerals, Subpart A Locatable Minerals; Sec. 228.8 f, g, h; Sec. 228.10, Sec.228.13
- Forest Service Manual 2800 (FSM 2800) Minerals and Geology (selected provisions) 2841, 2842, 2843, 2844, 2846

Monument Specific Forest Service Reclamation Requirements

- Subpart D – Miscellaneous Minerals Provisions, Sec. 228.80

Tongass National Forest Reclamation Requirements

- 2016 Forest Plan

NEPA Reclamation Stipulations

- Greens Creek Final Environmental Impact Statement (1983)
- Environmental Assessment for Proposed Changes to the General Plan of Operation (GPO) for the Development and Operation of the Greens Creek Mine Admiralty Island National Monument, Alaska (1988)
- Environmental Assessment for Additional Waste Rock Disposal Capacity at Greens Creek Mine Admiralty Island National Monument, Alaska (1992)
- Greens Creek Tailings Disposal Final Environmental Impact Statement (2003)
- Greens Creek Mine Tailings Disposal Facility Expansion Final Environmental Impact Statement and Record of Decision (2013)
- Greens Creek North Extension Project Final Supplemental Environmental Impact Statement (2024)
- Hecla Greens Creek Mining Company Surface Exploration 2026-2030 Environmental Assessment, Finding of No Significant Impact, and Decision Notice (2025)

The 1983 Final Environmental Impact Statement (FEIS) Record of Decision (ROD) states that reclamation performed within the monument will intend to return the land to a natural condition. This includes sealing mine openings, restoring original surface drainage, removing structures, reestablishing natural contours where possible, and stabilizing the soils. Stabilizing the soils includes revegetating all disturbed areas, where necessary, and ensuring and maintaining healthy growth.

The ROD states that detailed mitigation, monitoring, and reclamation plans will be included in the GPO. The reclamation plan includes all areas on national forest land disturbed by the project. The plan includes both lands administered by the Admiralty National Monument and Juneau Ranger District. The reclamation of the privately-owned Hawk Inlet facility is also covered in this reclamation plan. The privately-owned surface facility is under the jurisdiction of the City and Borough of Juneau and ADNR.

Figure 1: Project Location and Site Map



1.5.2. Alaska Department of Environmental Conservation (ADEC)

The State of Alaska made the determination that tailings and waste rock placed in the dry tailings stack and Site 23/D are subject to the Chapter 60 solid waste requirements, which include the need to acquire a permit. Mining waste is regulated under the monofill standards 18 Alaska Administrative Code (AAC) section 60.455 which allows ADEC discretion to incorporate applicable provisions of 18 AAC 60 into a waste management permit (WMP). A waste that is not specifically addressed in Article 4 (i.e. tailings) will be classified by the ADEC and assigned the most applicable waste category.

The waste management permit contains applicable provisions of Article 1 and 2 (60.010 to 60.265) that have to do with general standards, limitations, prohibitions and administrative procedures to be followed by every disposal facility regulated under the chapter. Additionally, the waste management permit will apply relevant locational, operational, and design related requirements from the monofill standards in Article 4 (18 AAC 60.400 to 60.495). The monofill requirements also include closure and post-closure plans, notifications, monitoring and reporting.

Furthermore, the Greens Creek facilities are subject to Article 6 (18 AAC 60.700 to 60.730) which have to do with user fees and Article 7 monitoring and corrective action requirements (18 AAC 60.800 to 60.865). In Article 7, monitoring requirements specify visual, surface water and groundwater requirements. Detection monitoring is also required under Article 7. Specific inspection and monitoring requirements are detailed in Section 3.0 of this document. Lastly, the facilities at Greens Creek are open to waivers to any provision of the chapter under 18 AAC 60.900 upon adequate demonstration and ADEC discretion.

ADEC has statutory authority to require proof of financial responsibility under AS 46.03.100(f).

See the Waste Management Permit for Greens Creek for more details on ADEC requirements regarding bonding, temporary closure, permanent closure, post closure care, and post closure monitoring.

1.5.3. Alaska Department of Natural Resources (ADNR)

Alaska Statute (AS) 27.19, the Reclamation Act, applies to state, federal, municipal, and private land and water subject to mining operations. This statute is administered by the commissioner of ADNR. The Reclamation Act states that "a mining operation shall be conducted in a manner that prevents unnecessary and undue degradation of land and water resources and the mining operation shall be reclaimed as contemporaneously as practicable with the mining operation to leave the site in a stable condition" and 11 AAC 97.240 further states "a miner shall reclaim a mined area that has potential to generate acid rock drainage (acid mine drainage) in a manner that prevents the generation of acid rock drainage or prevents the offsite discharge of acid rock drainage." An approved reclamation plan and a performance bond are required prior to approval of a mining operation with the exception of certain small operations. The bond amount shall be set at a level not more than an amount reasonably necessary to ensure the faithful performance of the requirements of the reclamation plan. Alaska Administrative Code (11 AAC 97 Mining Reclamation) applies to the approval of reclamation plans, reclamation bonding, and enforcement of reclamation requirements under AS 27.19 for locatable mineral, leasable mineral, and material mining operations on state, federal, municipal, and private land. Nothing in the Reclamation Act precludes a federal or state agency (including the ADNR), acting under its own regulatory or proprietary authority, from establishing and enforcing additional requirements or higher standards for reclamation. The Reclamation Performance Standards are defined in 11 AAC 97.200.

ADNR's Dam Safety Program jurisdictional requirements are an ongoing part of the operation, closure, and post-closure planning of the Greens Creek Mine. The Pond 7/10 dam system at the Greens Creek Mine is regulated under the Alaska dam safety statutes and regulations. HGCMC recognizes the authority the ADNR has for requiring that the operation, abandonment, or removal of the Pond 7/10 dam system (11 AAC 93.151 to 93.201) be included in each revision of the detailed mine reclamation plan. Sufficient funds for these requirements will be included in the financial assurance or any revisions thereof. A copy of associated sections of the Reclamation Plan and financial assurance instrument will be submitted to the Dam Safety and Construction Unit of the ADNR during each review and revision cycle.

2. APPLICANT INFORMATION

Date: 2026
Location: (Mine Portal) Latitude 58° 04'58" North Longitude 134° 37'57" West
Name of Facility: Hecla Greens Creek Mining Company – Greens Creek Mine
Type of Facility: Underground Silver, Lead, Zinc, and Gold Mine and Milling Operation
Business Name: Hecla Greens Creek Mining Company
PO Box 32199
Juneau, Alaska 99803
Telephone: (907) 789-8100

2.1. Corporate Information

General Manager: Bill Kloth

Hecla Greens Creek Mining Company is a Delaware Corporation, Incorporated May 19, 1986
(formerly known as) Kennecott Greens Creek Mining Company)

2.2. Alaska Registered Agent

Name: Hecla Greens Creek Mining Company #38561F
Address: c/o CT Corporation System (Agent)
9360 Glacier Hwy, Suite 202
Juneau, Alaska 99801

2.3. Designated Contact Person for Regulatory Issues

Name: Paula Lillesve
Title: Environmental Manager
Telephone: (907) 600-7737 ext. 8472

3. APPLICANT STATEMENT OF RESPONSIBILITY

HGCMC recognizes its responsibility in the use of public (Federal) lands and accepts that responsibility in agreeing to reclaim the Greens Creek Mine site. HGCMC will meet the requirements of its reclamation plan and return the site to a safe and stable condition consistent with the approved post-mining land use. HGCMC will meet required local, state, and federal regulations regarding reclamation of any surface area affected by the mining and processing operations. Reclamation activities and post-reclamation maintenance of remaining structures are HGCMC's responsibility.

In the event a new operator/land owner assumes control of the Greens Creek Mine, at that time, the new operator/land owner will agree to assume responsibility for the reclamation and maintenance of any affected land and structures that are the subject of this plan or existing permits. The new operator/land owner will request transfer of all applicable state and federal permits. The new operator/land owner will provide evidence that a surety is filed with USFS, ADEC, and ADNR that would cover reclamation of disturbed lands, including privately owned, as well as post-reclamation maintenance of remaining structures.

4. PROJECT DESCRIPTION

4.1. General

The mine, located on the south side of Greens Creek, has a main access portal at an elevation of 920 feet. Personnel and supplies are brought into the mine at the 920 portal and distributed throughout the mine with rubber-tired vehicles. Underground mining methods incorporate rubber-tired diesel-powered equipment. Drift and fill is the primary mining method used to extract the ore. Long-hole stoping is also utilized in select ore zones conducive to this bulk mining method. Cemented tailings and waste rock generated by the mining operations are used as backfill in mined out areas to support vehicles and equipment and to provide structural ground support, allowing subsequent mining of adjacent ore.

HGCMC mines an average of 2,300 tons of ore each day. A comparable milling rate is processed daily, producing approximately 500 tons per day (tpd) of concentrate and 1,800 tpd of tailings. On average 300 tons of waste rock daily is disposed of at the Site 23/TDF facilities.

The mill site is located on the north side of Greens Creek approximately 800 feet from the mine. Access to the mine site from the mill site is via a bridge that crosses Greens Creek. The mill site consists of the mill buildings, fuel storage tanks, an office/shop complex, a coarse ore stockpile, water supply pump house, switch gear building, and a warehouse and storage area.

A selective flotation milling process is used to concentrate valuable minerals from the raw ore following grinding. The flotation process consists of size reduction, mineral concentration, and moisture reduction of the concentrate. Size reduction involves grinding the ore in semi-autogenous (SAG) and ball mills. Ore enters the SAG mill at a size of 15 inches or smaller and leaves in the 0.05-inch (-16 mesh) size range. The ore then enters the ball mill to be further reduced in size to 80% at minus 74 microns (minus 200 mesh) this material is then slurried. Further size reduction of select flotation material in tower mills assists with the concentration of target metals.

The slurry flows to flotation cells, where carbonaceous wastes, then valuable minerals, are separated from gangue materials in a series of froth flotation processes. The ore minerals in this case are sulfides of lead, zinc, copper, silver, and free gold. Waste includes various silicate, carbonate, and sulfide minerals. The valuable minerals adhere to air bubbles that rise to the surface of the tank and are removed. Small quantities of metallic gold and silver are also recovered on site using a gravity process for shipment to off-site refineries.

Following separation of ore minerals from tailings, the concentrate slurries are piped to separate thickener tanks, where the water content is reduced. The thickened slurries are then compression-filtered to remove most of the remaining water. Concentrate products are reduced to approximately 8% by weight moisture. Tailings material moisture content is reduced to approximately 12%, the optimum moisture level to achieve maximum compaction when placed as mine backfill or at the surface Tailings Disposal Facility (TDF).

In general, tailings are preferentially placed back into the mine as structural backfill, with the remaining material placed at the TDF. Tailings reporting to the TDF are loaded at the concentrator load-out area into covered Maxhaul tractor/trailers, each with a 45-ton capacity, and hauled down the B Road to the TDF (Figure 1). Approximately 20 roundtrips per day are required, but this varies depending on the daily underground tailings backfill requirements.

Supplies, such as fuels and reagents, are transported by barge to the Hawk Inlet dock facility and unloaded at the marine terminal complex. The cargo dock is located at the same site as the old cannery dock structure. HGCMC receives a yearly average of 80 barges bringing goods, road rock, and fuel to these Hawk Inlet facilities. Chemicals and containers are unloaded from barges by forklifts and transported to the process site by truck. HGCMC wastes and return materials shipping containers are placed back onto these barges by forklifts.

Hawk Inlet infrastructure also includes a 200,000-gallon bulk diesel fuel storage tanks, associated fill piping from the fuel barge unloading dock, a fuel loading facility for vehicles and the tanker truck, an electrical generator building, and warehouse. Less than 1,000 gallons of gasoline is also stored at the fuel loading facility. Assorted lubricating oils and used oils in portable tanks, totes, and drums are temporarily stored at this site's warehouse prior to their transport to the mine/mill site. A large ore concentrate storage building (maximum 40,000 tons capacity), temporary housing facilities, and ancillary support facilities are also located at the Hawk Inlet site. Chemicals are delivered in dry and wet form in containers by barge, offloaded, and stored at the warehouse at this location.

Concentrates are transported from the mill to Hawk Inlet dock facility by covered haul truck. An enclosed telescoping boom conveyor and drop chute are used to transport concentrates from within the shore storage area directly into the holds of bulk cargo ships. Twelve to eighteen concentrate ships are loaded by HGCMC annually in Hawk Inlet.

In 2006, the installation of infrastructure to augment the mine's use of diesel-generated power with less expensive hydroelectric power was completed. Although the Snettisham/Lake Dorothy hydroelectric link has the ability to provide cheaper power when available. The Greens Creek operation relies on on-site power generation when hydroelectric power is not available.

4.2. Surface Disturbance

Operations procedures have been implemented to support closure strategies with the use of tailings and waste rock for backfilling to minimize surface area used for final disposal. The primary surface operation consists of the mine portal, mill/warehouse/administration facilities, Site 23/D Waste Rock Disposal (WRD), TDF, Hawk Inlet, material sites, reclamation stockpiles, and Young Bay terminal all connected with 13 miles of access roads (Figure 1). The A and B access roads are single lane with vehicle turnouts to minimize disturbed acreage.

4.2.1. Areas and Acreage of Disturbance

The disturbances listed in Table 1 are for disturbed areas within the lease boundary on both public and private lands over the life-of-mine of Greens Creek Mine operations. The listed acres are a more refined updated estimate of areas that may be disturbed over the life of mine. The below three figures show the larger areas. Please see Attachment B figures for detailed drawings of sites.

Table 1: Areas and Acreage of Disturbance

Project Components	Acres
920 Mill and Portal area	24
Waste Rock Site 23	20
Waste Rock Site D	8
Waste Rock Site 1350 and Portal area	3.5
Access 1350 Road	4
1160 Tank	1
960 Waste Rock Area	1
Waste Rock Site C and 860 area	3
Waste Rock Site E	10
Tailing Disposal Facility	130
Hawk Inlet and Marine load out area	14.5
Young Bay Dock Facility	1
Access A Road	24
Access B Road	41
Power Line Right-of-way	32
Topsoil stockpiles & borrow sites	31
Total	320

Figure 2: Disturbance Areas North

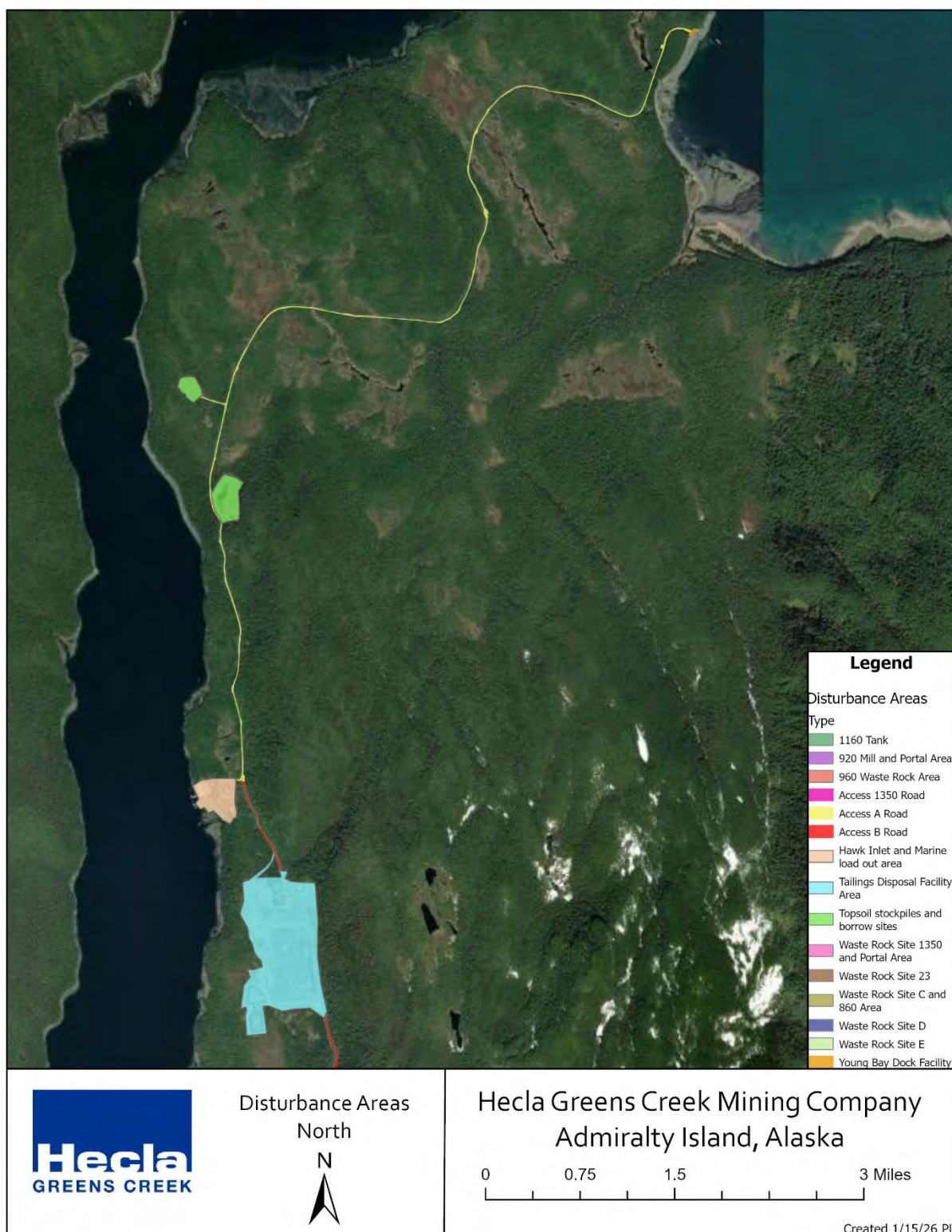


Figure 3: Disturbance Areas B Road

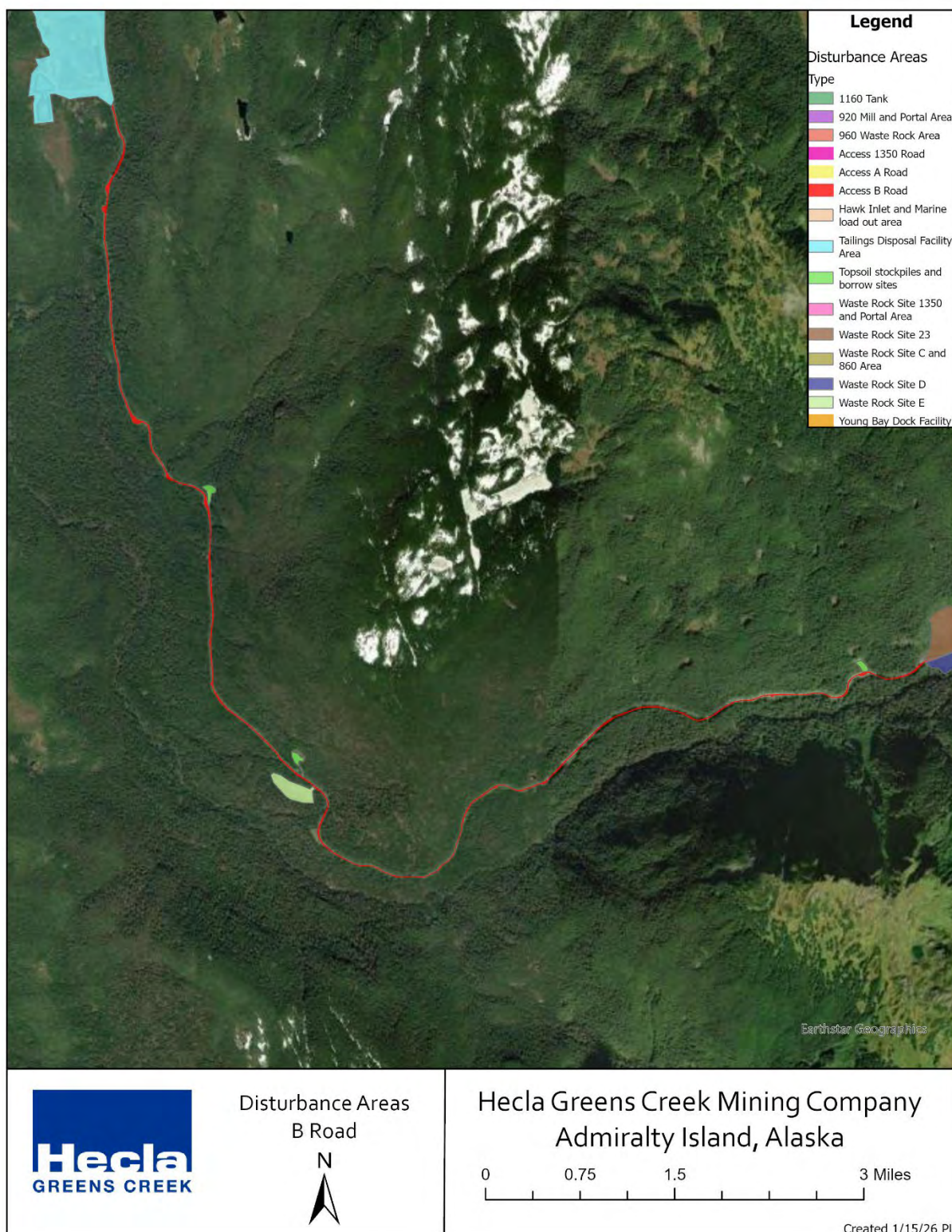
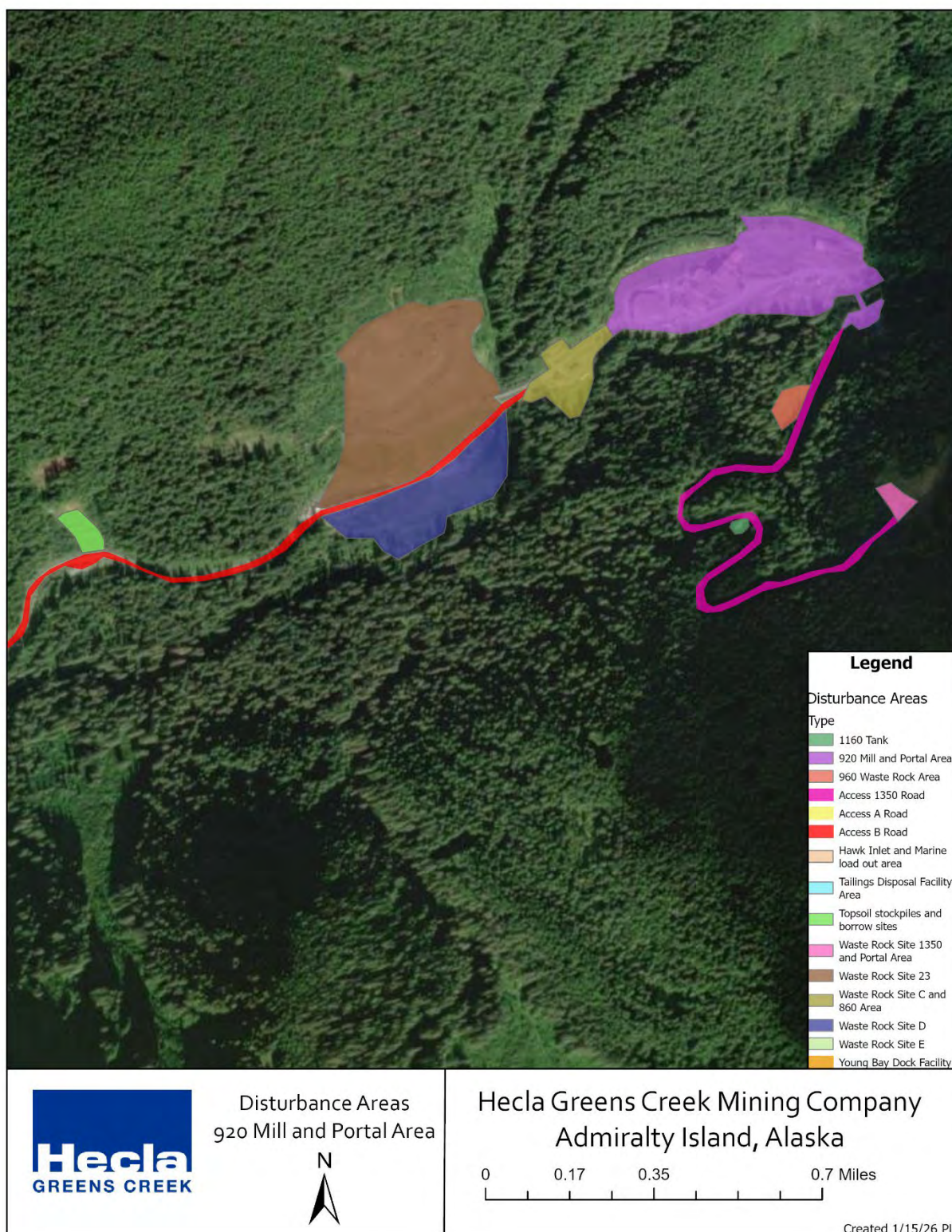


Figure 4: Disturbance Area 920 Mill Area



5. RECLAMATION / CLOSURE PLANNING

5.1. General

HGCMC's long-term goals of reclamation during and after mining and milling operations are to shape, stabilize, revegetate, or otherwise treat the land in order to return it to a safe and stable condition consistent with the establishment of productive post-mining uses of the land as prescribed by AS 27.19.020. The current designated post-mining uses for the Greens Creek Mine area are for wildlife habitat and recreation and is consistent with the USFS Tongass Land and Resource Management Plan that includes the Admiralty Island National Monument. HGCMC is currently incorporating practices that include contouring and stabilizing disturbed areas using best engineering practices to create seed beds which invite and promote early seral colonization, and using commercially available native plant species, if available, and soil amendments with proven on-site track records.

HGCMC considers reclamation to be a progressive process tied directly to the design, construction, operation, and closure of the mining operation. Reclamation and reclamation planning will or has occurred to meet the following objectives, with some overlap:

1. Satisfy all regulatory requirements;
2. Protect water quality, and public health;
3. Return the site to a near-natural conditions to the extent practical;
4. Support lands uses consistent with the Forest Plan;
5. Minimize or eliminate long-term management requirements;
6. Ensure long-term stability; and
7. Provide a cost estimate for reclamation and post-closure obligations.

HGCMC will continue to adhere to the above general objectives in developing and implementing this reclamation plan at the Greens Creek site. Therefore, the “on-the-ground” implementation of the plan will work to ensure:

1. Stabilization and protection of surficial soil materials from wind and water erosion;
2. Stabilization of steep slopes through contouring and leveling to provide rounded land forms and suitable seedbeds;
3. Management of contact water associated with the mine, TDF, material sites, and waste disposal facility (WDF);
4. Removal and reclamation of material sites and WDF (Site 23/D) to minimize contact water and post-closure water treatment;
5. Establishment of long-term, self-sustaining vegetative communities through reseeding and/or promotion of natural invasion and succession; and
6. Establish water storage ponds and batch water treatment plant for long-term water treatment and management to meet closure water effluent discharge limits.

HGCMC will continue working with the USFS, ADNR, and Alaska Department of Fish & Game (ADF&G) with the implementation and evaluation of both concurrent and long-term reclamation activities.

The physical reclamation of the Greens Creek site will utilize best practicable proven and documented technology. Specific technologies that will be employed to satisfy these performance goals are the

responsibility of HGCMC. The details and procedures for area specific reclamation such as the mine, millsite, waste rock facilities, tailing disposal facility, etc. are discussed in Section 6.0.

5.1.1. Land Use

Land Use Prior to Green Creek

Historically fishing and the canning industry have been the primary industrial users of the Admiralty Island coastal area with canneries once located at Angoon, Gambier Bay, Hood Bay, Port Gardner, Pybus Bay, and Hawk Inlet. There are no longer any active seafood processing canneries located on Admiralty Island.

Large-scale logging in several bays occurred in the 1950's and 1960's. With the reduction of timber sales, changing market conditions, and designation in 1978 by President Jimmy Carter declaring Admiralty Island a National Monument for the protection of its ecological, cultural, geological, historic, prehistoric and scientific values, logging activities have been minimized. In 1980, Congress designated most of the island as Wilderness and this has resulted in it being the only large island in Southeast Alaska not to have been extensively logged or developed.

Subsistence and recreational hunting, fishing, and wildlife viewing are historic uses and remain the primary attraction due to the high populations of game animals (i.e., Alaska brown bear, and Sitka Black-tailed deer). Wildlife viewing along the shoreline and estuaries in the early mornings and at twilight often provides a glimpse of either eagles or brown bears.

Coal and mineral extraction activities have been intermittent on Admiralty Island since 1895. Some hardrock lode mining occurred during the 1920's and 1930's. Modern mineral exploration and mining activities saw resurgence in the 1970's that ultimately resulted in development of the Greens Creek Mine and associated infrastructure.

Land Use during Greens Creek Operations

Subsistence and recreational hunting, fishing, and wildlife viewing are the main activities island-wide. Federal authorizations allow access for hunting along the roads but limits access to the general public in some areas due to the inherent hazards associated with the operation of large mine equipment and process components. Compliance with requirements of MSHA regulations limit access to personnel trained to recognize hazards and observe safety rules to insure the health and safety of employees and visitors.

Proposed Post-Mining Land Uses

The land comprising the Greens Creek Mine, inclusive of all Admiralty Island facilities, consists of both publicly and privately-owned uplands and tidelands. Greens Creek leases parcels from the United States on both the Monument and non-monument lands. HGCMC uses other public lands pursuant to special use permits issued by the USFS and leases issued by the State of Alaska. It owns land on Admiralty Island both as a result of patenting mining and millsite claims and through transfer of private lands in the historic cannery area from its predecessor. Additionally, Greens Creek holds subsurface and restricted surface use rights to approximately 7,300 acres of public lands as a result of a land exchange made pursuant to the Greens Creek Land Exchange Act of 1995 (Pub. L. 104-123 April 1, 1996).

Under the land exchange agreement, certain private lands (e.g. patented claims) owned by HGCMC ultimately will be transferred to the United States and the 7,300 acres of subsurface and restricted-use surface lands patented to Greens Creek in 1999 will revert to the United States. The land exchange agreement does not impose special reclamation requirements on these lands. It requires that they must be reclaimed in accordance with applicable laws and the approved reclamation plan.

Final reclamation of the mine facilities will take into account anticipated post-mining land uses. Since such uses likely will be limited primarily to monument-related activities, returning the surface to a near-natural condition should satisfy post-mining land use needs. Private lands that will retain their private status after mining were developed for non-monument uses prior to creation of the Admiralty Island National Monument. After closure, HGCMC will consult with the ultimate landowners, as well as any agencies having regulatory authority over reclamation of such lands, to determine the final disposition of structures and facilities.

Post-closure water treatment facilities and associated ancillary facilities will remain until all water associated with process component meet applicable discharge standards.

5.1.2. Interim Reclamation

Interim reclamation includes all actions taken to stabilize disturbed areas during operation of the mine. Generally, the focus of interim reclamation is to reduce erosion and sedimentation of waterways, and to protect water quality.

Techniques used to protect slopes from erosion and to reduce sediment delivery into water courses include various Best Management Practices (BMPs) that are described in more detail in Appendix 5 of the General Plan of Operations (GPO). Management actions used to protect water quality include surface water diversion, groundwater diversion, and collection and treatment of contact water. These water management actions are also described in more detail in Section 8.1.4.

HGCMC routinely performs interim reclamation throughout the site. Interim reclamation has included hydroseeding, as well as construction of berms, slope drains, rock check dams, silt fences, and settling ponds, all of which minimize erosion, reduce sediment production in disturbed areas, and stabilize previously disturbed areas.

5.1.3. Concurrent Reclamation

Reclamation that is completed while the mine is still in production is termed concurrent reclamation. Concurrent reclamation differs from interim reclamation in that concurrent reclamation is designed to provide permanent, low maintenance achievement of reclamation goals.

Concurrent reclamation is encouraged for many reasons. First, it allows the mine and agencies to measure the performance of specific reclamation technologies before mine closure and to refine the techniques for site-specific conditions. Next, concurrent reclamation could potentially reduce bonding requirements, following agency sign off. Additionally, concurrent reclamation facilitates the determination of more accurate closure costs. Finally, evaluation of the performance of concurrently reclaimed areas allows for a more accurate assessment of the likelihood that specific reclamation technologies will achieve desired performance goals.

Generally, for areas in which metal leaching and acid rock drainage (ML/ARD) risk may exist, HGCMC will initiate concurrent reclamation based on a site-wide risk assessment, addressing the higher risk sites first, when possible.

Areas that have undergone concurrent reclamation during operations since 1989 are listed in the Annual Reports applicable to the year the reclamation occurred.

5.1.4. Temporary Closure

Temporary Closure means the cessation of the mining and milling operations for a period of not more than three years. If conditions require temporary closure to extend beyond three years, final reclamation will begin, unless an extension is requested by the company and approved by USFS, ADNR, and ADEC. Temporary closure scenarios, which require modifications to the plan of operation, reclamation plan, solid waste, or 404 Permit, will be coordinated with and submitted to the appropriate Federal and State agencies for approval.

Temporary closure may include planned and unplanned cessation of the mining and milling processes. Planned temporary closures which have specific conditions defining their beginning and end include, but are not limited to the following:

1. Interruptions in the active beneficiation processes to provide planned periods of quiescence for metallurgical or operating reasons;
2. Any other planned condition, which will interrupt the active beneficiation process including modification to process components or suppressed metal market conditions; and
3. Change in ownership requiring the temporary cessation of operations while operating permits are transferred to the new owner/operator.

Unplanned temporary closures may include, but are not limited to the following:

1. Closure because of unforeseen weather events;
2. A failure in a major system component or a process failure which causes the fluid management system or a portion thereof to shut down; or

The cessation of operations as a result of litigation.

HGCMC will notify the Agencies within ten days of the first day of the temporary closure of any unanticipated suspension or cessation of operations that is expected to last more than ninety days or more. The notice will state the nature and reason for the temporary closure, the anticipated duration of the temporary closure and any event that would reasonably be anticipated to result in either the resumption or abandonment of operations. Project operations must resume for not less than ninety consecutive days in order to terminate the temporary closure status. HGCMC will maintain the project area in a safe and secure condition during a temporary closure and HGCMC will not allow the project area to be degraded or eroded during or as a result of the temporary closure. HGCMC will continue, in full force, all water collection and treatment, monitoring and reporting required by the reclamation plan unless otherwise agreed to by the agencies.

While the mine operation is inactive, environmental monitoring programs described in the GPO will continue to be implemented. The need for implementation of interim reclamation activities or final reclamation on components of the mine will be addressed on the basis of environmental monitoring results and consultation with the appropriate agencies.

5.1.5. Final Reclamation

After HGCMC has completed operations at Greens Creek, or at any individual facility or mine unit, final reclamation can be initiated. When a facility is no longer needed for mine operation or when it has

reached its design capacity, then reclamation will be initiated as soon as practical. It is assumed that at the final stage of operations, a significant amount of site-specific reclamation experience and performance data will have been incorporated into periodic reclamation plan updates. The final reclamation plan will be submitted for approval two-years prior to planned, final reclamation of the facility. Unlike the periodic updates, which make assumptions about the anticipated closure conditions (i.e., Basis of Cost Estimate); the final plan will be based on the actual conditions that exist at closure.

5.1.6. Post-Closure Care and Maintenance

Achievement of many reclamation goals can be expected over a number of years. Following final reclamation, the site will be inspected, monitored, and maintained in a fashion that helps achieve the long-term goals set out in this Plan. HGCMC has determined long-term post-closure water treatment (active) may be required for mine drainage and TDF seepage. Specific water management practices such as batch treatment will be estimated based on closure assumptions prior to final closure, will be defined more clearly when actual closure conditions exist and may be further refined based on information obtained during post-closure monitoring. Attachment B provides more details on assumptions regarding post-closure care and maintenance.

5.2. Reclamation Plan Submission and Approval

HGCMC will continue to submit an updated Reclamation Plan as required to keep current with operations, regulatory changes, and issues identified during the regular third-party Environmental Compliance Audits. Each updated and revised Plan will contain sufficient detail to allow for calculation of estimated closure costs including post-closure maintenance and monitoring. The Plan will identify how the reclaimed facilities will conform to relevant performance standards.

More frequent Plan revisions may be required by the agencies if substantial increases in the disturbed area have occurred since the last update, or if specific portions of the Plan are shown to be inconsistent with performance goals.

The Plan shall contain cost calculations and a tabulation of material quantities required to complete the reclamation. The Annual Report contains a description of concurrent reclamation that has occurred and anticipated reclamation projects for the following year.

The Reclamation Plan and other relevant GPO appendices will be maintained in accordance with agency monitoring requirements. These documents describe the sites monitored, the data collected, and the monitoring frequency and duration.

5.3. Reclamation Cost Calculation and Bond Release

The regulatory agencies have coordinated their financial assurance authority through a Memorandum of Understanding (MOU) to require financial assurance for performance of reclamation and facility closure and post-closure monitoring activities at Greens Creek. Proof of financial assurance, which may take any form mutually agreed upon by the agencies and HGCMC, is referred to as a “bond” in this section. Unless otherwise agreed between the agencies and HGCMC, the bond amount will be calculated on the basis of the Reclamation Plan and use of the Standard Reclamation Cost Estimate Model (SRCE) Version 1.4.1 Build 16. The bond will address all costs that would be incurred by the agencies in taking over reclamation activities in the event of Operator default (Attachment B).

5.3.1. Incremental Bond Release

A site or area will be eligible for release or partial release of the bond amount directly attributable to that site or area when all pertinent aspects of final reclamation activities are complete. This includes but is not limited to removing any facility and necessary materials, grading the surface, applying cover-soils as necessary, applying the approved final seed mix, and the area exhibits vegetative cover meeting the specific plant community goals as specified in Section 6.2.2. Bond release can be sought for areas reclaimed concurrently (during operation) or after final reclamation.

For a site or area subject to overlapping jurisdiction of the agencies, concurrence from all agencies having jurisdiction over the site or area will be sought as to the completeness of the reclamation. HGCMC will apply for incremental bond release by submitting a letter to the appropriate agencies requesting release of the specific site or area(s). The letter will summarize the conducted reclamation activities, the reclamation activity schedule, and the final revegetation completion date.

The agencies will approve incremental bond release through a process upon which they have agreed. The agencies may require a joint agency/HGCMC site visit to confirm that HGCMC has completed pertinent reclamation activities at the site or area(s). These reclamation requirements will be described in the final reclamation plan, in the waste management permit, and in other applicable permits. If required, HGCMC will continue monitoring the site or area(s) in compliance with applicable permits or approval until the agencies release the entire bond.

5.3.2. Bonding and Management during Post-Closure

After mining activities are completed in a particular area, HGCMC will return the area to a near-natural condition using the pertinent procedures described in this Reclamation Plan. After closure, a portion of the site's total bond will be retained for a period to be determined in consultation with the agencies, in light of the applicable post-closure care requirements, to provide for personnel, materials, equipment, and repairs necessary for monitoring, maintenance, and post-closure water management (active and passive water treatment).

If monitoring shows that a site or area is not satisfactorily progressing toward meeting performance goals, HGCMC will, within 60 days of problem identification, propose for the agencies' concurrence a written corrective action plan which may require either or both:

- Continued monitoring, with continued retention of the remaining bond amount, over an extended period until progress is made toward satisfaction of the performance goals
- Implementation of additional remedial measures to correct the situation delaying or preventing attainment of those goals

If remedial measures are implemented, HGCMC will, at the discretion of appropriate agencies, restart the monitoring period, which will delay bond release. The agency holding the bond, in accordance with the agreement among the agencies, may proceed with final bond release if the problems being addressed through remedial measures represent an insignificant proportion of the disturbed area compared to the overall success of the reclamation closure.

5.3.3. Bond Release

Final release of the bond for the physical reclamation and closure of facilities will occur when monitoring demonstrates that performance goals/objectives described in Section 5.0 have been met and any post-closure monitoring required by an applicable permit or approval has been satisfactorily completed.

Application for and final bond release will follow the same protocol as described above for incremental bond release. Removal of monitoring equipment and abandonment of monitoring wells (according to ADEC regulations) will follow the joint agency/HGCMC site visit for confirmation of final bond release.

Long-term post closure water treatment, monitoring, and periodic dam safety inspections will have specific financial assurance to provide funding for potential in perpetuity operation of the designated post-closure facilities.

5.3.4. Reporting

Annual reports required under the WMP and RPA are submitted by HGCMC to the USFS, ADEC, and ADNR. Additionally, performance monitoring of reclaimed areas, and post-closure monitoring results will be reported.

6. RECLAMATION GOALS AND PROCEDURES

General procedures for physical stabilization and revegetation of mined land disturbances are well documented and proven. Additionally, the procedures discussed herein for the development and management of reclaimed process components, contact water, and storm water runoff associated with the Greens Creek Mine and infrastructure. These proven techniques are incorporated throughout the Plan and, in coordination with the agencies, will be continuously used during the implementation phase of final reclamation.

The ultimate goal of final reclamation of the site is to blend into the natural landscape features of Admiralty Island, minimize or eliminate long-term management requirements, and meet applicable AWQS for surface and groundwater, which is consistent with the Tongass Land and Resource Management Plan.

6.1. Reclamation Timing

Year 0 – Site Stabilization & Holding Phase: Following active operations, the site enters a one-year holding period. During this phase, water treatment is operated and monitored. A general holding crew will provide site oversight and address day-to-day needs. Dedicated sampling crews will be mobilized periodically to conduct required environmental sampling activities.

Years 1 through 3 – Active Reclamation: Reclamation activities commence in Year 1 with the mobilization of a dedicated closure crew. Work during this period includes structured demolition of surface facilities, material haulage, and disposal either underground or at the tailings facility, in accordance with the approved closure plan. Cover material placement will proceed concurrently with demolition and haulage activities to optimize schedule efficiency. Reclamation efforts are expected to continue progressively through the end of Year 3. Water treatment is ongoing.

Year 4 – Transition to Monitoring & Care: By Year 4, active reclamation is anticipated to be substantially complete, and the site is expected to transition into a long-term monitoring and maintenance phase. Onsite staffing will scale down to crews responsible for operating the water treatment plant on a batch treatment basis, supplemented by ongoing environmental monitoring in accordance with regulatory requirements.

Years 5-100- Monitoring and Care: After year 4 the site enters long term monitoring and care. Inspections and sampling are completed by staff flying in and out. Inspections are conducted for site stability and revegetation status. Water treatment is expected to start being conducted in batch treatments as water is collected. As sites return to vegetated status it is expected that less water than during active status will be collected over the years. The model shows details on expected flows and when most areas will be returned to natural conditions not requiring treatment.

6.2. Aesthetics

The final reclamation plan will be reviewed by designated professional staff from USFS, ADNR, and ADEC to assess the degree to which the reclamation plan meets the aesthetic goals of the plan. Examples of aesthetic considerations in a reclamation plan may include but are not limited to:

- reduction in the extent of long uninterrupted slope crests with the same elevation;

- design of contours on reclaimed facilities that have crenulations in plain view (e.g. having an irregularly wavy or serrate outline) that approximate those found in surrounding landforms;
- creation of slopes that have a similar profile to those found in surrounding landforms (e.g. concave or convex profiles); and
- integration of natural drainage networks into reclaimed slopes.

Aesthetic considerations may conflict with other performance goals such as stability or environmental performance of engineered covers. Where such conflicts exist, environmental protection shall take precedence over aesthetics.

6.3. Earthwork and Revegetation

Reclamation will require extensive earthwork. The mill/administration/warehouse complex will require removal of potentially acid generating rock (see SRCE User Sheet 1), grading, contouring, and possible growth media application. The TDF will require final cover construction. Generally, slopes will be constructed to 3H:1V, shallower where feasible, or match surrounding topography. Figure 3 and Figure 5 depict typical post-reclamation topography (i.e., end of operations) of the Greens Creek reclaimed access roads and the TDF once final regrading of surfaces has occurred. Potentially acid generating rock encountered in the access roads will be hauled to the TDF or underground (See SRCE User Sheet 1).

Growth media is generally described as material that will support vegetation following reclamation. It may contain organic matter, but HGCMC experience indicates that “topsoil” is not necessary for successful revegetation of disturbed areas at the site. HGCMC will use growth media salvaged from construction of access roads, material sites, TDF, and TDF ponds for reclamation and construction of covers on the TDF. Table 2 lists volumes of stockpiled reclamation material and the location of the major stock piles are shown in Figure 5. Current stockpiles of growth media were reclaimed to ensure stability and protect stockpiled material for final reclamation should the material be needed. Material was sloped, vegetation established, and monitoring is in place to ensure site erosion is minimized. When new growth material is accumulated it is stockpiled in locations where it will not be contaminated, proper sloping for erosion prevention will be used, and site will be inspected to maintain integrity. Depending on the location of new stockpiles, the area could be temporarily reclaimed with hydroseed.

Additional growth media needed to complete reclamation will be imported from off-island sources as needed for cover construction and revegetation. There is an additional 199,874 cu. yd. of material in the 1.4 A road sand pit that could be used for reclamation. However, this material is not being used in this Plan. Reclamation materials, such as topsoil, till, and marine sediments are salvaged when practical and stockpiled in a manner that keeps them separate from other materials. HGCMC keeps an inventory of reclamation material stockpiles that documents their location and content so they can be located and utilized during mine closure (Table 2). Sites D and E have material that is suitable for the barrier layer of the cover. This silt/clay/gravel till was excavated from the mill site during construction of the mill and is currently overlain by waste rock at sites D and E. Reclamation of these sites will entail removing the waste rock in a manner that prevents comingling with the till material. Once the waste rock is removed, the till will be available for use in construction of the cover at the tailings facility. The clay matrix of the till has inhibited downward flow of drainage from the waste rock through the till.

Earthwork will utilize industry standard heavy equipment. It is anticipated that the equipment list will include dozers (track and rubber tired), water truck, motor graders, hydroseeder, grid compactor, broadcast seeder, straw blower, and disk harrow. Other equipment such as (but not limited to) front-

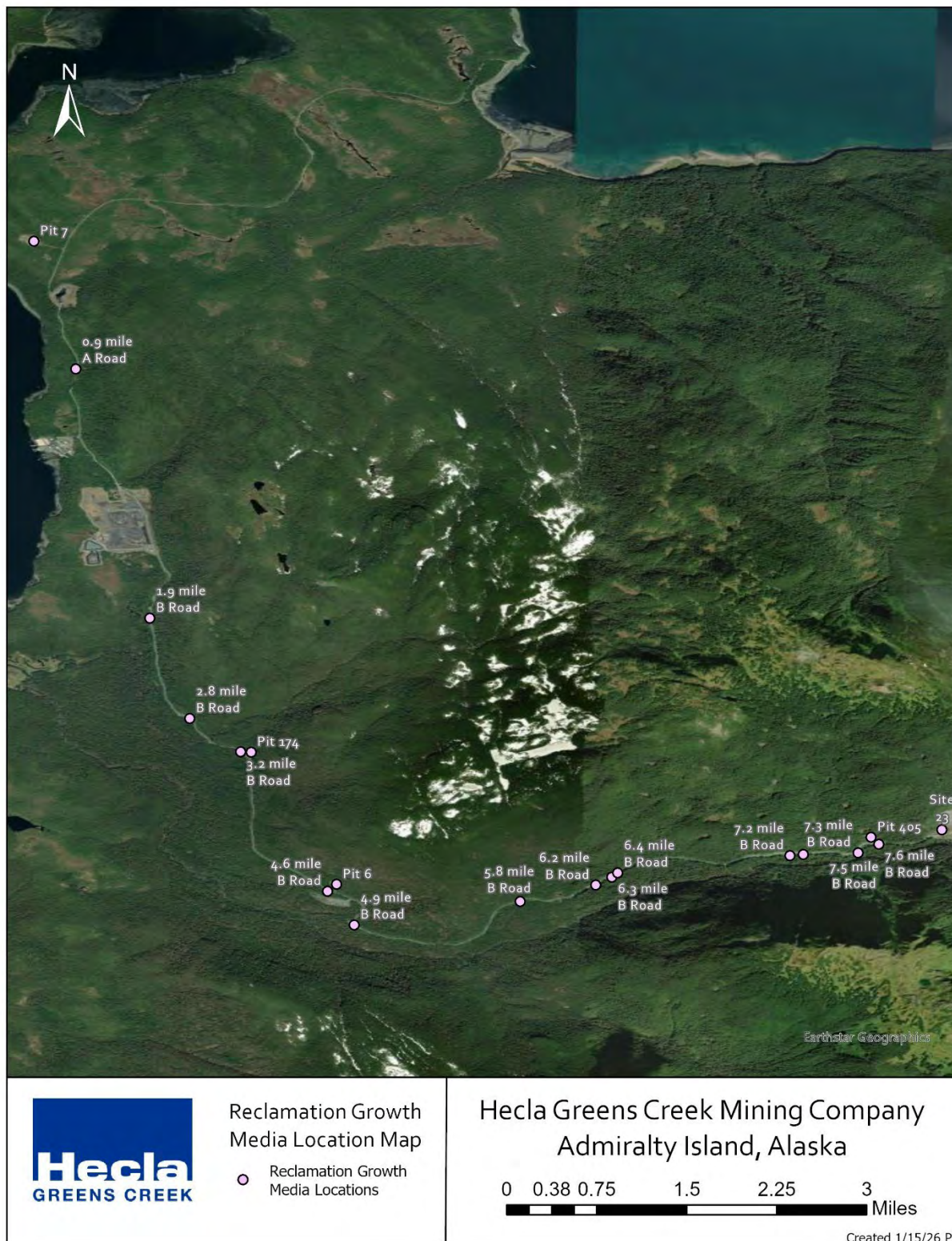
end loaders, track and tire mounted backhoes, and haul trucks may be substituted for or included with this general equipment list. Equipment needs, and use must and will remain dynamic, as specific conditions require during implementation of the plan.

Table 2: Total Volumes of Stored Reclamation Material

Material	Location	Reclamation Soils Subtotal by Volume (yd³)
Till	0.9 mile A Road	4,458
Till	1.9 mile B Road	1,000
Peat/Organics	2.8 mile B Road	664
Till	3.2 mile B Road	5,300
Till	4.6 mile B Road	7,640
Mill Site	4.9 mile B Road	29,262
Till	5.8 mile B Road	1,165
Till	6.2 mile B Road	14,402
Till/Organics	6.3 mile B Road	672
Till/Organics	6.4 mile B Road	720
Till	7.2 mile B Road	3,810
Till	7.3 mile B Road	1,746
Till	7.5 mile B Road	647
Till	7.6 mile B Road	4,056
Till	Pit 405	10,895
Till	Pit 174	10,375
Till	Pit 6	18,418
Till/Organics	Site 23	5,000
Till/Organics	Pit 7	164,389
Approximate	Total	284,619*

*as of May 2025

Figure 5: Reclamation Growth Media Location Map



6.3.1. Revegetation

Disturbed areas at Greens Creek will be reclaimed to one of three vegetation types including upland meadows, upland forest, or wetlands (A Revegetation Manual for Alaska, 2008). Specific seed mixtures, woody seedling density, and maps showing each vegetation type will be submitted with the final reclamation plan and subsequent reports.

Following final reclamation, revegetation success will be monitored for three years following seedbed preparation, fertilization, and seeding, mulching, and temporary erosion control measures. Monitoring reports will include information regarding condition, ground cover, and species present.

Upland Meadow Areas

Areas reclaimed with grass and forbs on Admiralty Island have shown significant use by a wide range of wildlife species i.e., deer, bear, rodents, raptors, and songbirds. HGCMC will limit open meadow areas to 10 contiguous acres to enhance edge-effect, benefit wildlife, improve aesthetics, and advance the rate of succession to the next seral stage. Forbs will propagate as natural volunteers and will not be planted or included in the seed mix.

Upland Forest Areas

Forest stands will be developed using a combination of natural regeneration and reseeding or transplanting if necessary. Natural regeneration is preferred over planting as a means of establishing a coniferous overstory in small areas where seed sources are available. Natural regeneration will ensure re-establishment of Admiralty Island genotype species, follow natural successional stages, and provide unique wildlife habitat during stand development. Naturally regenerated plants are well adapted to growing on site. The seeds either migrate from surrounding native plants or, in many instances, are already in the soil. Natural regeneration benefits the environment by ensuring the succession of naturally occurring, site adapted genotype species.

According to an Alaska Forest Management Education Alliance pamphlet on Forest Regeneration, Alaska has unique regeneration opportunities that relate to the type of trees and cold soils in Southeast Alaska. The coastal forests of Southeast Alaska regenerate very quickly and profusely. Approximately 95% of disturbed areas seed-in naturally from surrounding stands. Western hemlock and Sitka spruce grow rapidly in this area. Natural regeneration of these climax species is evident throughout areas previously disturbed by HGCMC activities and in areas without any reclamation preparation.

HGCMC will utilize natural regeneration as the primary method of woody plant restoration in areas seeded as upland forest and in smaller disturbed areas where adequate seed trees are present. Accelerated regeneration through seeding will be implemented if necessary, in more expansive reclaimed areas (several acres), or in areas that require stabilization (*Alaska Coastal Revegetation & Erosion Control Guide*. 2010). Accelerated regeneration would consist of planting more of the climax species to minimize large open areas and accelerate succession.

In areas where the trees propagate either from natural regeneration or from planted seedlings, HGCMC may thin the subsequent growth to allow the remaining trees to grow more quickly and achieve climax forest conditions determined by the generally accepted Silvicultural Prescription for coastal forests of Southeast Alaska.

Wetland Areas

Wetlands provide food, protection from predators, and other vital habitat factors for many fish and wildlife species. Wetland systems have economic value associated with recreational, commercial, and subsistence use of fish and wildlife resources. In addition, wetlands remove sediment from overland flows before they reach lakes, rivers, and bays. Wetlands intercept storm runoff and release floodwaters gradually to downstream surface and groundwater systems. A significant portion of the Greens Creek temperate rain forest setting supports wetlands. Riparian, muskeg, and forested wetland communities all occur in the area (*Streambank Revegetation and Protection – A Guide for Alaska. 2005*).

Seed Mixtures:

The following specific seed mix is used for interim erosion control at the Greens Creek Mine.

Common Name	Scientific Name	% of Mix
Annual ryegrass	<i>Lolium perenne ssp. multiflorum</i>	40%
'Boreal' Red fescue	<i>Festuca rubra</i>	40%
'Arctared' Red fescue	<i>Festuca rubra</i>	20%

If either boreal red fescue or arctared fescue is unavailable, then the amounts of the available two may be adjusted to total 100%.

The application for hydric or wetlands seeding using the seed mix would be 15 lbs. of pure live seed (PLS) per acre. Approximately 15 to 30 lbs. of PLS per acre would be applied for mesic or upland areas depending on surface contours, grade, aspect, and rockiness of the specific site.

Approved Concurrent and Final Reclamation Seed Mix for Mesic (Upland) and Hydric (Wetland) Areas:

Upland

Common Name	Scientific Name	% of Mix
'Nortran' Tufted hairgrass	<i>Deschampsia caespitosa</i>	60%
'Boreal' Red fescue	<i>Festuca rubra</i>	20%
'Arctared' Red fescue	<i>Festuca rubra</i>	10%
'Gruening' Alpine bluegrass	<i>Poa alpina</i>	10%

The ADNR, Plant Material Center (ADNR 2014) recommends a broadcast seed at a rate of 43 pounds per acre for areas completely devoid of vegetation or when native species may be inhibited from moving into the site. For other areas the application rate for the Upland seed mix would be approximately 15-30 lbs. of PLS per acre depending on surface contours, grade, aspect, rockiness of the specific site. A lower seeding rate also allows for species to move in by natural reinvasion.

Wetland

Common Name	Scientific Name	% of Mix
'Egan' American sloughgrass	<i>Beckmannia syzigachne</i>	45%
'Notan' Tufted hairgrass	<i>Deschampsia caespitosa beringensis</i>	45%
'Sourdough' Bluejoint reedgrass	<i>Calamagrostis canadensis</i>	10%

Broadcast seed at a rate of 30 lbs. per acre for areas completely devoid of vegetation and when native species may be inhibited from moving into the site. For other areas the application rate for the presently proposed seed mix would be 15 lbs. of PLS per acre.

Fertilizer:

Chemical fertilizers will continue to be used with the following chemical analysis and application rate (depending on availability):

- 10-20-10 (10% nitrogen, 20% phosphorus, and 10% potassium): 200 lbs./acre (225 kg/ha) or
- 22-13-6-7S-1Mg (22% nitrogen, 13% phosphorus, 6% potassium, 7% sulfur, and 1% magnesium; 200 lbs./acre (225 kg/ha) and
- 46-0-0 (nitrogen urea): 100 lbs./acre (110 kg/ha)

The specific fertilizer used will be based on availability and with prior agency notification.

Mulch:

Disturbed areas within the Greens Creek site vary in the amount of organic matter in the growth media placed prior to seeding and fertilizing. The rate of mulch (organic materials) added has varied from 100 lbs./acre (110 kg/ha) to 1,800 lbs./acre (2,018 kg/ha). For planning purposes and closure cost estimating, the higher application rate will be used, but actual field application rates may vary depending on site specific conditions.

6.3.2. Specific Plant Community Goals

Vegetation on concurrent and final reclaimed areas at Greens Creek will be subject to monitoring requirements and performance standards that will be derived in consultation with appropriate regulatory agencies following revegetation and considering site-specific conditions. Roads used for permanent access and other areas where buildings are maintained for post-mining use, will not be subject to vegetation standards.

6.4. Wildlife Use

If stipulated by the agencies involved, HGCMC will conduct qualitative wildlife species counts to monitor wildlife habitat utilization and wildlife habitat potential of the reclaimed areas.

6.5. Fish and Fish Passage

The infiltration gallery and weir in upper Greens Creek adjacent to the 920 portal will be removed at final closure. HGCMC will collaborate with ADF&G, Habitat Division on the final stream bed substrate and gradient.

The constructed Fish Pass, located near river mile 3.5 on Greens Creek, will be maintained after final closure to meet the long-term fish passage goals set by the ADF&G, Habitat Division, and the 2013 USFS ROD. Alternatives to maintaining constructed weirs may include excavation of material or blasting to create a stable long-term natural gradient that provides fish passage.

6.6. Roads and Site Access

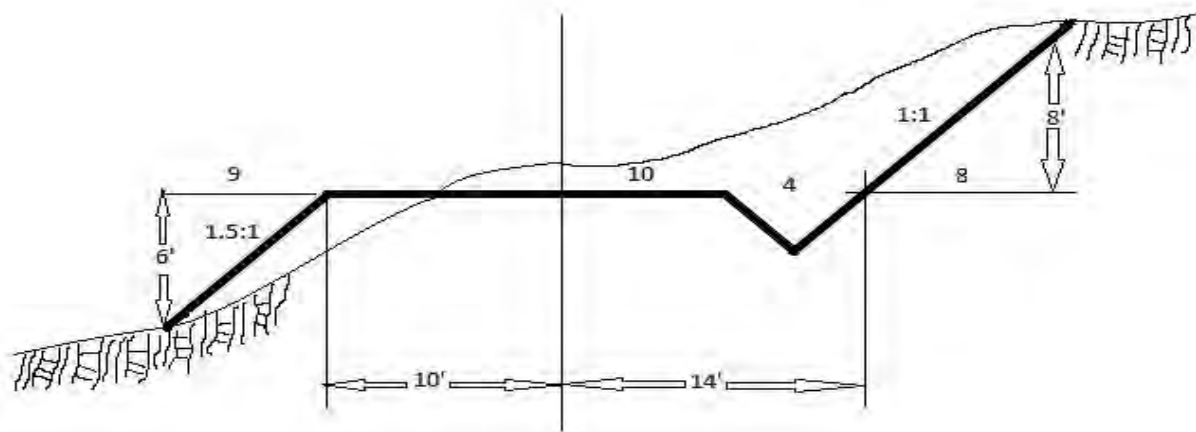
The primary access roads from Young Bay to Hawk Inlet and from the TDF to the mill area and portal will be removed at closure. Access from Hawk Inlet to the Water Treatment Plant (WTP) located at the TDF site (Figure 1) will be maintained because the continued collection and treatment of contact water

(Section 7.1.4) will require access to maintain and replace equipment (i.e., pipe, tanks, pumps, etc.), deliver reagents, and monitor operations of WTP facilities.

6.6.1. Bridges and Culverts

Bridge components on the B Road and over Greens Creek that are necessary to provide pipeline crossings will be retained. Nonessential bridge components (e.g. wood decking, deck supports and splash guards) will be removed. Access to these structures will be via helicopter. Other structures (e.g. road ditch culverts) will be removed during reclamation of the road.

Figure 6: Typical Road Cut/Reclaimed Slope



6.7. Waste Rock Disposal and Tailings Disposal Facilities

Material from WDF (Site 23/D) will be transported to the TDF or underground for final disposal. The original ground surface will be recontoured and growth media placed for revegetation. The TDF will be contoured and reclaimed with an engineered cover. The cover will be designed to include a low permeability layer or oxygen excluding layer consisting of a mixture of silt and clay covered with growth medium to promote revegetation of the areas (Figure 8). HGCMC has commissioned studies by the Oregon State University on vegetative cover growth, including conifer reinvasion and windblown trees, on integrity of the cover that indicate the cover will meet the objectives of the design (OSU 2010). Drain layers consisting of sand and/or gravel will also be incorporated into the cover to promote lateral drainage within the cover profile and act as a capillary break between cover layers and the tailing pile. Pond 7 and Pond 10 at the TDF (Figure 2), will remain to provide adequate storage for seepage, underdrain, and storm water collected at the TDF. Furthermore, eventual mine drainage will report to this pond system. In addition to Pond 7/10, if any additional ponds are defined a dam as specified by ADNR, requirements for operation, abandonment or removal will be included in the appropriate revision of the Plan. Assumptions regarding the operation and maintenance costs for ponds are included in Attachment B and Attachment C. Once vegetation is established and surface water runoff meets the applicable AWQS, only TDF seepage and underdrain water, mine drainage, and precipitation (directly into the ponds) will be collected and stored for batch water treatment.

Figure 7: Tailings Facility Buildout

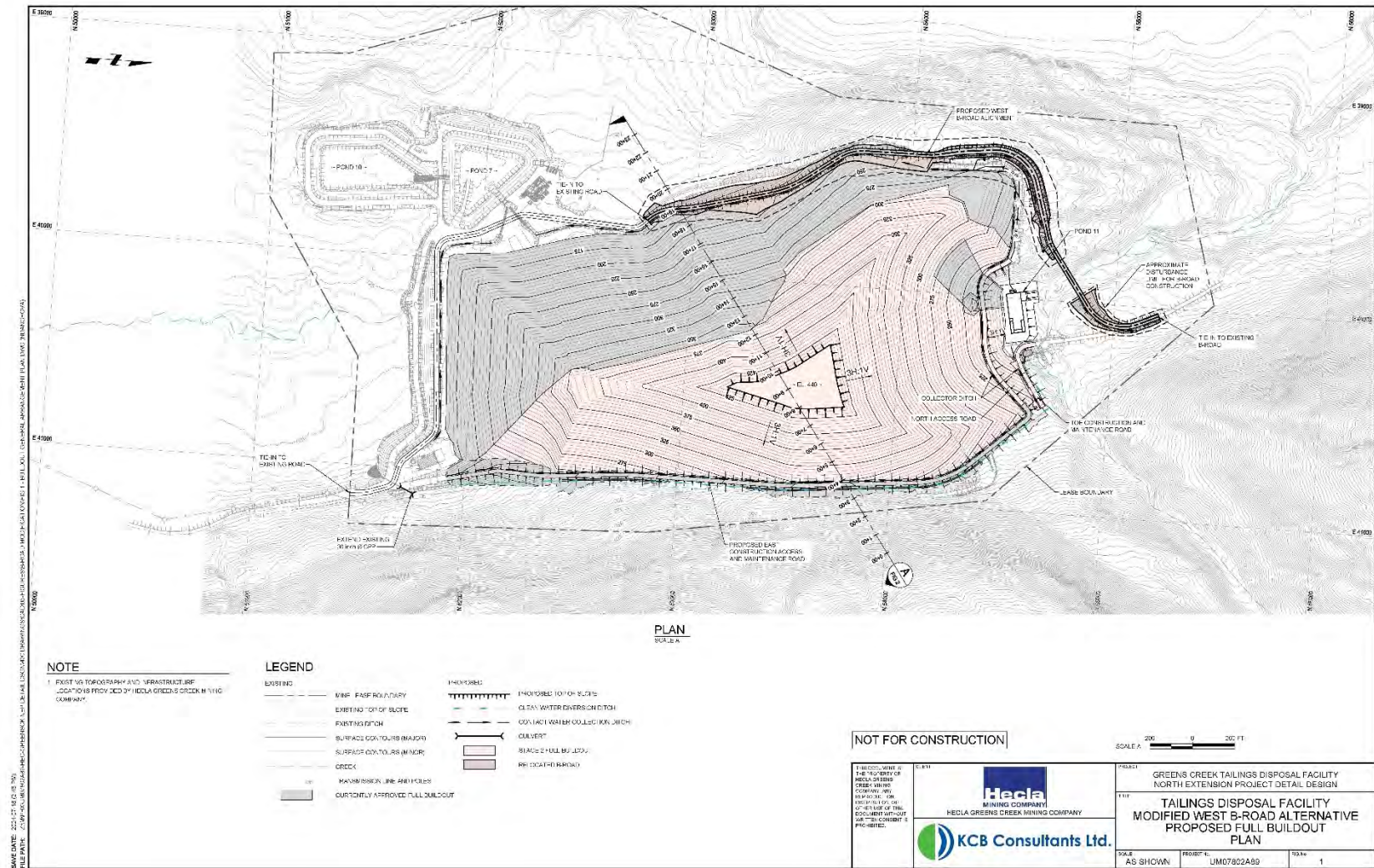
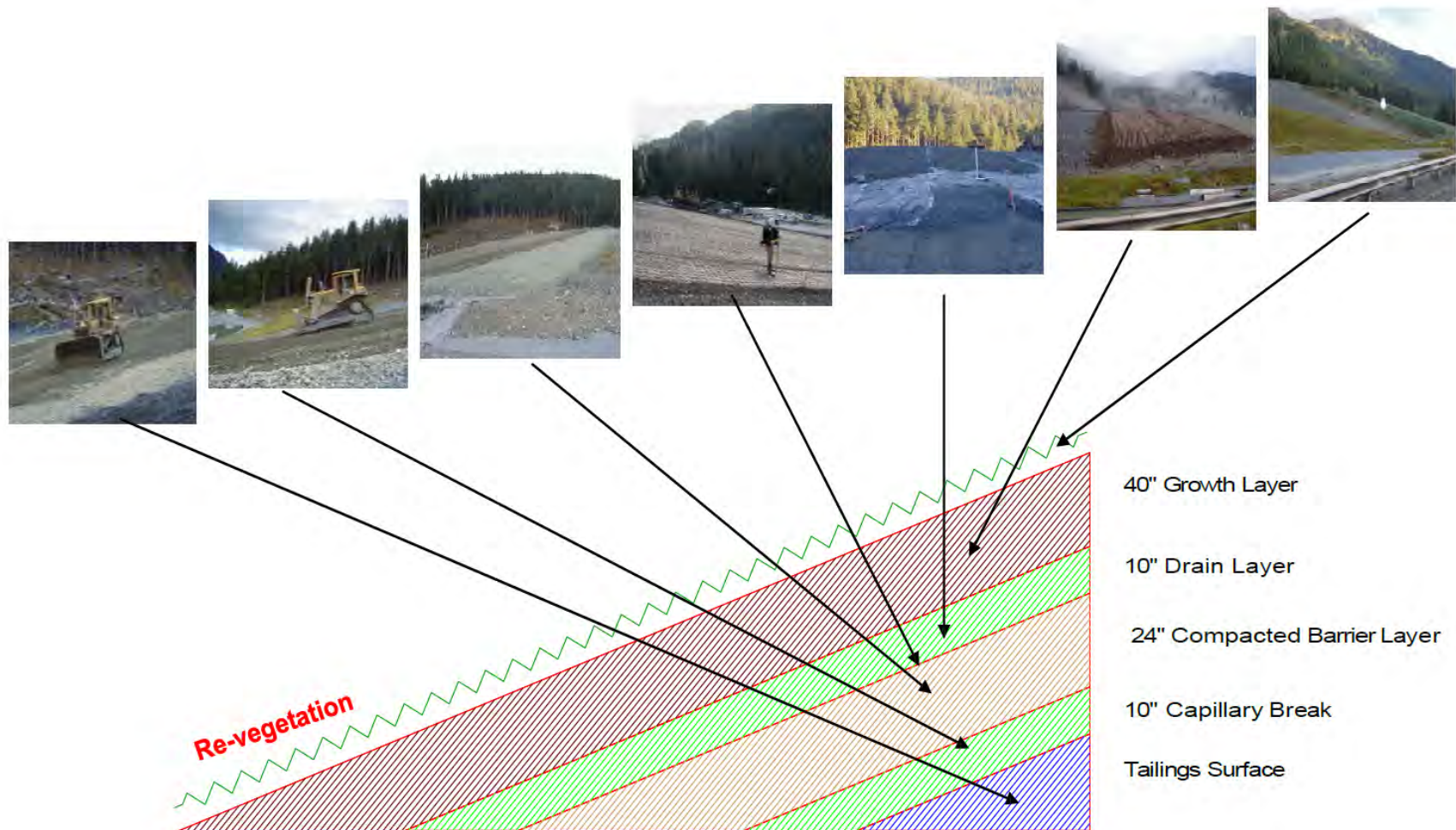


Figure 8: Engineered Cover - Typical 4-layer installation on a 3:1 slope



6.7.1. TDF Cover Performance and Inspection

6.7.1.1. Cover Inspection

If levels of erosion, which are potentially destructive to the cover, are identified, HGCMC will notify the appropriate agencies within two business days of the date of problem identification. In addition, the extent of the problem will be ascertained and a report describing the situation as identified, including probable causes, will be developed by HGCMC and submitted to the agencies within 30 days. A corrective action plan will be submitted to the agencies for review and approval within 75 days of the date of problem identification. Following approval of the corrective action plan, HGCMC will implement the corrective action plan in a timely manner. If the cover system is breached by rodents and/or other digging wildlife, the extent of the problem will be ascertained and a report describing the situation as identified, including probable causes will be developed by HGCMC and submitted to the appropriate agencies within 30 days of the date of problem identification. A corrective action plan will be submitted to the agencies for review and approval within 75 days of the date of problem identification. Following approval of the corrective action plan, HGCMC will implement the plan in a timely manner. If removal and/or relocation of animals are required, State of Alaska and Forest Service biologists will be consulted regarding the removal/relocation process. In the event of an emergency need to remove or relocate animals when no biologist is available for consultation, HGCMC will consult with qualified wildlife biologists and submit a summary report of the actions taken to the agencies.

Repair of the low permeability layer will include, but need not be limited to, the following steps:

1. Removal of growth medium from the affected and immediately adjacent area and stockpiling
2. Removal of the damaged areas of the low permeability layer or oxygen-excluding layer
3. Re-installation of the cover components in affected areas to the design performance criteria under the same QA/QC procedures as the original installation. The edges of the re-installed layers will overlap with the adjacent undisturbed layers to assure adequate joining of the layers.
4. Replacement of overlying cover layers to their original design thickness
5. Reseeding/planting as per original design specifications

All such repairs will be undertaken in a manner that minimizes the disturbance to the surrounding reclaimed area. HGCMC will submit an as-built report of the work performed under the corrective action plan to the agencies.

6.8. Demolition of Structures and Equipment

All demolition of buildings and structures will be completed with an excavator for slab breaking, a medium or small truck will be used for hauling material to final location, and a dozer will be used to grade the site. Additional specific equipment is specified in the SRCE model.

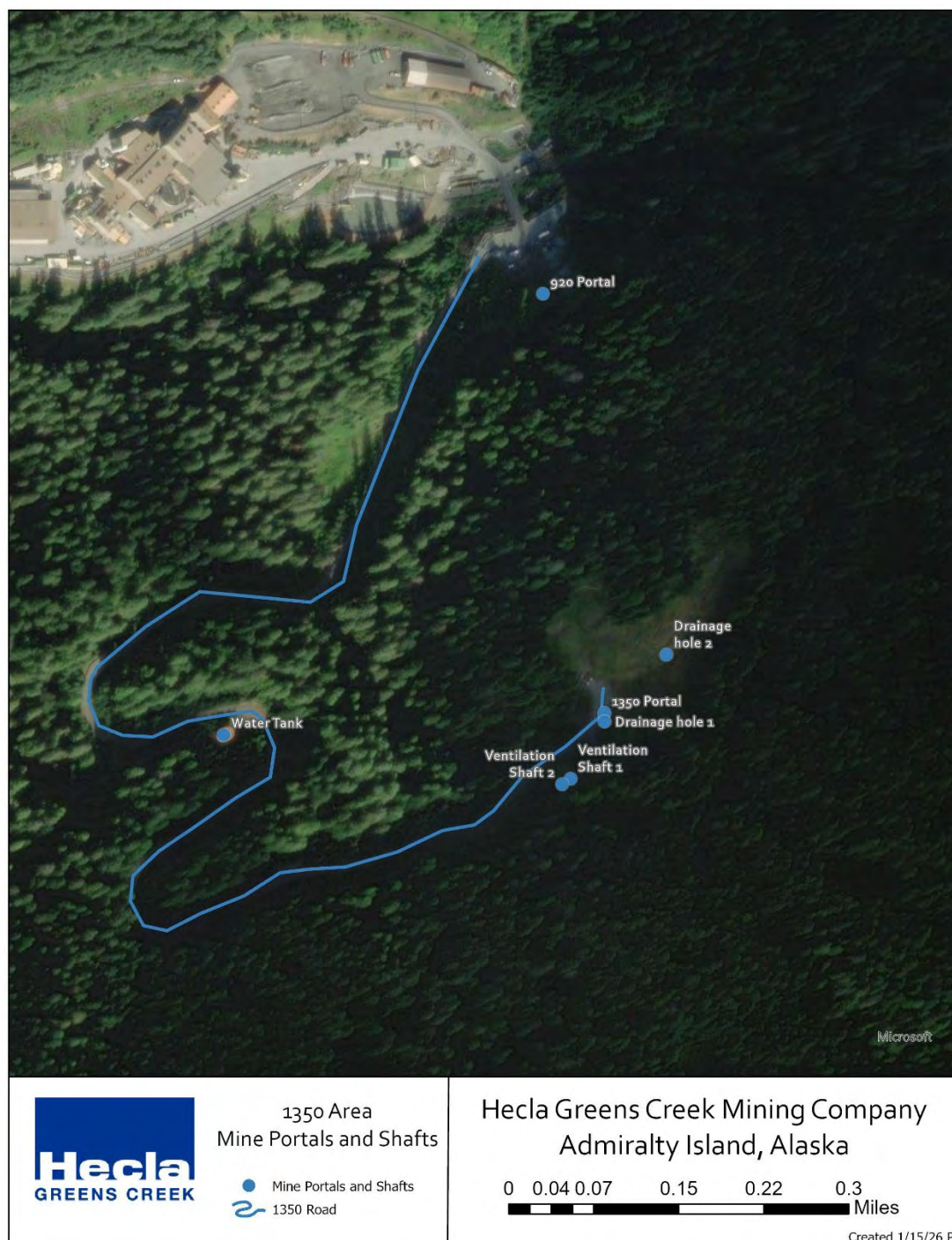
6.8.1. Mine Portals

The 1350 Portal and two surface ventilation shafts (8 ft. diameter) will be sealed and the area recontoured to promote runoff away from the sealed portal, vent shafts, and reclaimed 1350 waste rock site. The access road from the 920 Portal to the water tank and 1350 Portal will be reclaimed after the upper portal and ventilation shafts are sealed, and water tank removed (Figure 9).

Two drainage holes (2 inch) from the 1,350 elevation will be grouted and three internal mine ventilation shafts (8.0 ft. diameter) between levels will be plugged with concrete. A bulkhead will be constructed at the 920 Portal and the workings will be allowed to flood naturally. When the flooded underground water level reaches the 920 Portal bulkhead it will flow via gravity pipeline to the TDF water treatment

plant or a passive system if it is determined that adequate treatment is provided to meet Alaska Water Quality Standards (AWQS).

Figure 9: 1350 Area Mine Portals and Shafts



6.8.2. Hawk Inlet Facilities

The facilities at Hawk Inlet will be partially reclaimed to leave only the historic cannery buildings (Figure 1). The concentrate storage and load out facility will be decontaminated (with power washer), demolished, and material recycled or disposed of in the TDF, or underground workings of the mine. Fuel storage tanks will be dismantled and removed from the site as scrap steel. The warehouse, shipping containers, shift housing, tanks, core shed, maintenance building, and assorted trailers will be dismantled, demolished, or recycled as appropriate for the structure.

HGCMC will defer a final decision on the demolition and reclamation of the drinking water and sewage treatment facilities until a final post-mining use of the Hawk Inlet historic buildings is determined.

6.8.3. Young Bay

The A Road east of the tailings pile to Young Bay and dock facility lies outside of the National Monument in an area with a Land Use Designation of “Semi Remote Recreation;” as such, the two areas are treated slightly different within the Forest Plan in regards to minerals development and reclamation. For cost estimating purposes HGCMC assumes the A Road will be reclaimed during the closure period (Years 1-3) and the electrical transmission line will remain until Year 10. Access to the electrical transmission line by the third-party owner of the line (Kwaan) following road removal will be by helicopter as in other remote areas within their distribution network. Maintenance and removal of the power line is the responsibility of the third-party owner. The existing barge, pier facilities, and pilings will be removed at final closure. Pilings that cannot be pulled out will be cut at base level.

6.8.4. Solid Waste

Structures that have been constructed on Forest Service administered lands, plant site, and other structures not identified to remain for post-mining use will be demolished. All material and equipment will be salvaged and recycled when cost effective. All hazardous materials will be removed as described in Section 6.7.5 below. Materials that cannot be salvaged will be disposed of in designated areas of the underground workings as approved under the Waste Management Permit issued by ADEC, removed from the site for disposal, or disposed on-site in an appropriate manner. If applicable, a solid waste permit will be obtained for on-site disposal of demolition debris.

HGCMC will recover and remove all salvageable equipment, instrumentation, furniture, unused chemicals and fuels, and other salvageable or waste material following permanent closure of the operation. Removal will consist of loading at the site, transporting to the HGCMC Hawk Inlet facility and offloading to a barge. These materials will either be shipped to buyers, recyclers, or to an approved waste disposal area.

6.8.5. Hazardous Materials

Hazardous materials that remain on-site at the time of final reclamation, whether in the form of unused process reagents, fuels or lubricants, or as residue from demolition of the site (contaminated soil, etc.) will be removed from Admiralty Island and will be properly recycled or disposed under applicable State and Federal law.

6.8.6. Miscellaneous Sites and Equipment

Wells and Well Closure

Once monitoring of the TDF and other process components indicates component stability, the applicable monitoring wells for those facilities would be abandoned by plugging the well and removing the surface

casing. Well abandonment will be conducted in accordance with ADEC regulations (18 AAC 80.015). Abandonment procedures generally include removal and disposal of pumps and piping, removal of the casing where possible, perforating the screened portion of the well, plugging of the well with an approved sealing material at total depth, removal of the collar, minor grading around the well site, and revegetating the area as appropriate (i.e., seeding, mulching, etc.).

At Greens Creek, bentonite or cement grout would be forced into the perforated screened interval and into the remainder of the well casing to decommission the well in a way that protects the groundwater resources.

After mining and milling ceases, additional wells not needed for post-closure monitoring will require abandonment. This procedure will be revisited on a periodic basis as additional operating data become available and during development of final process component closure plans.

Fence Removal

The use of fences as a post-mining reclamation structure would be minimized in favor of more permanent structures, such as earthen berms, to restrict access. The use of fencing during closure will be limited to reagent areas for the WTP or until such time that all reagents and chemicals (including, but not limited to petroleum products) are removed from the site. During final site closure, all manufactured fencing will be removed except in those area previously noted.

Mobile Equipment

For the purposes of this plan, no salvage value will be assigned to the mobile equipment. Mobile equipment and other equipment not needed for future potential uses of the site will be salvaged and removed from the site. Mobile equipment not designated for removal will be buried in designated area of the underground workings at closure. To prevent degradation of water resources or other contaminant mobilization, batteries will be removed and all fluids will be drained from all mobile vehicles prior to final disposal underground. The equipment burial locations would be surveyed and reported to the ADEC in the final closure report for the site.

7. STABILITY AND WATER MANAGEMENT

7.1. Mass Instability

Semi-annual inspections of all reclaimed areas for evidence of slope instability shall be made in year 1. Annual inspections will be made in years 2, 3 and 5 following completion of reclamation activities. Additionally, the TDF reclaimed with an engineered cover will be monitored for the duration of the post-closure mandatory period specified in the waste disposal permit. HGCMC will submit slope-stability reports to the appropriate agencies, summarizing the findings of the periodic inspections.

- **Underground Mine:** The portal area and areas where stopes are within 50 ft of land surface will be monitored from the surface for signs of geotechnical instability. The final reclamation plan will include a map of these stope areas.
- **TDF:** The slopes of the tailings pile will be monitored to verify the TDF remains in a stable condition.
- **Other Reclaimed Areas:** The slopes of other areas throughout the permit area, including the mill area, material sites, access roads, and other support facilities will be monitored to confirm the areas remain in a stable condition.

Mass instability, including slope failure and subsidence in the above areas, will be subject to the contingency requirements described below.

Underground Mine: If crown pillar failure occurs over any stopes, or if development headings collapse near the portal, HGCMC will notify the appropriate agencies within two business days of problem discovery, will conduct a geotechnical investigation to determine the cause of such failure and will propose a corrective action plan for review. After review and approval of the plan by the appropriate agencies, HGCMC will implement the approved plan in a timely manner.

TDF: If slope movement, subsidence, erosion or other mass instability is observed in the tailings pile, HGCMC will notify the appropriate agencies within two business days of problem discovery. A geotechnical investigation will be conducted to ascertain the extent of the problem, and a report describing the situation as identified, including estimates of the volume affected by the instability and potential consequences of the instability with respect to its effect on the integrity of the cover system and drainage features. Investigation report will be developed by HGCMC and submitted to the appropriate agencies within 30 days of the date of problem identification. A corrective action plan will be submitted by HGCMC to the agencies for review and approval within 75 days of the date of problem identification. Any remedial measures undertaken in conjunction with the corrective action plan will be completed in a timely manner, which minimizes disturbance to reclaimed areas and meets all original design criteria for the tailings pile.

Other Reclaimed Areas (i.e., material sites, reclaimed roads, etc.): If slope movement, subsidence or other failure which threatens the integrity of any other reclaimed area occurs, HGCMC will notify the appropriate agencies within 30 days of problem discovery and will repair any damage that could affect other reclaimed facilities in a timely manner.

7.1.1. Permanent Channels and Channel Inspection

Surface water flows will be managed in most cases by establishing vegetative cover and constructing moderate slopes. Most slopes will be constructed with a 3H: 1V slope. Constructing slopes at 3H:1V

reduces the erosive effects of water. In areas with minor flow concentrations, brush berms, silt fences, and swales will be used to reduce the velocity of the water and reduce erosion while vegetation becomes established. Also, hydroseeding of these areas will stabilize the soils.

If natural stream channels enter reclaimed areas the water will be diverted, diffused, or channeled through the reclaimed area using designed and constructed non-erosive channels. If necessary, stream channels will be stabilized with degradable fiber mat to establish vegetation. Riprap will be used to stabilize the constructed channels in areas that are subject to highly erosive stream flows.

Drainage channels and diversion structures are incorporated into the design and construction of the site facilities.

Modifications to the drainage channels will be accommodated as necessary in the design and construction of the cover at the TDF. All drainage channels and diversion structures that will be retained after closure are designed to handle flows from at least a 24 hour/25-year storm event, with minimal maintenance. These structures will be subject to the routine inspection and maintenance requirements described below.

In order to ensure that the drainage channels and diversion structures are functioning properly, they will be inspected semi-annually by site staff for signs of excessive erosion for five years following completion of reclamation activities. After the first two years of monitoring, HGCMC may propose to the appropriate agencies that inspection be conducted less frequently if appropriate. During the five-year period, drainage channels and diversion structures will be inspected within 24 hours following any 24-hour storm event in excess of two inches of rainfall for signs of deterioration and erosional damage as well as excessive sedimentation.

During the remainder of the post-closure monitoring period required under the waste disposal permit, drainage channels and diversion structures will be inspected after each storm event that exceeds the largest prior storm that has occurred since completion of reclamation. The appropriate agencies may require more frequent inspection by HGCMC during the post-closure monitoring period if the drainage channels and diversion structures are shown to require frequent maintenance or repair.

Routine inspections and inspections completed after major storm events will be subject to the following requirements:

- physical damage, trash build-up, and sedimentation will be recorded on field inspection sheets
- diversion intake and outflow areas will be inspected for evidence of scouring or bypass
- any areas needing maintenance or repair will be reported on the field inspection sheets

If damage is noted, appropriate repairs will be completed by HGCMC in a timely manner. A summary of all observed damage requiring repair will be submitted annually to the appropriate agency, including as-built reports verifying the completion of the required repair.

If significant damage or overflow is caused by storms that are smaller than the structure's design storm, HGCMC will conduct an investigation to identify the cause of significant damage or overflow of diversions. A report will be prepared by HGCMC identifying the extent of the problem and the probable causes. The report will be submitted to the appropriate agencies within 30 days of the date of problem identification. A corrective action plan will also be submitted to the appropriate agencies for review and approval within 75 days of the date of problem identification. The corrective actions to be taken may

include, but need not be limited to, regrading, armoring of drainage features, redesign and re-construction of channel cross-section and alignment, replacement of topsoil, reseeding, and replanting of trees and shrubs. After approval by the appropriate agencies, HGCMC will implement the plan in a timely manner.

7.1.2. Drainage

The surface of the reclaimed facilities will be maintained in a free-draining condition, which allows water to egress the facility without ponding or causing erosion, to the extent practical.

If significant ponding of water occurs on the surface of any non-wetland reclaimed facility, HGCMC will notify agencies within two business days of the date of problem identification. In addition, the extent of such ponding will be ascertained and a report describing the situation as identified, including probable causes, will be developed by HGCMC and submitted to the agencies within 30 days of the date of problem identification. A corrective action plan will be submitted by HGCMC to the agencies for review and approval within 75 days of the date of problem identification. Following approval of the corrective action plan by the agencies, HGCMC will implement the plan in a timely manner. The corrective actions to be taken may include, but need not be limited to, the following steps:

- Placement of additional fill that meets original design criteria
- Re-grading of placed fill to original design criteria
- Placement of growth medium to original design thickness

Any such remedial measures will be undertaken in a manner that minimizes disturbance to adjacent reclaimed areas.

7.1.3. Cover Performance and Inspection

An engineered cover will be used for the tailings facility reclamation. The cover was engineered and then a test plot was constructed in 2000. The cover was subsequently approved for reclamation. Climate data, soil suction, temperature, moisture content, and soil gas compositions will be monitored initially to verify that the cover is performing as designed. Long term cover performance will be evaluated based on visual observation of the cover surface and facility water quality monitoring. The reclamation plan will be updated following results from an updated cover test trials as required by the 2024 NEP ROD mitigation item S-1.

Cover Inspection

In order to ensure that the cover systems are functioning properly, they will be inspected semi-annually for five years following completion of reclamation activities for signs of excessive erosion, damage due to blowdown of trees or damage by animals. Long-term post-closure inspections will continue annually.

The cover is designed to minimize erosion and monitoring of the cover surface by site staff during batch treatment campaigns will allow for rapid identification and remediation if a problem develops. After the first two years of inspection, HGCMC may propose to the appropriate agencies that inspection be conducted less frequently, if appropriate. During the five-year period, the cover system, diversion structures, and drainage channels will also be inspected by HGCMC within 24 hours following any 24-hour storm event in excess of two inches of rainfall for signs of deterioration and erosional damage as well as sedimentation. Any necessary repairs will be completed by HGCMC in a timely manner.

If levels of erosion, which are potentially destructive to the cover, are identified, HGCMC will notify the appropriate agencies within two business days of the date of problem identification. In addition, the extent of the problem will be ascertained and a report describing the situation as identified, including probable causes, will be developed by HGCMC and submitted to the agencies within 30 days. A corrective action plan will be submitted to the agencies for review and approval within 75 days of the date of problem identification. Following approval of the corrective action plan, HGCMC will implement the corrective action plan in a timely manner. If the cover system is breached by rodents and/or other digging wildlife, the extent of the problem will be ascertained and a report describing the situation as identified, including probable causes will be developed by HGCMC and submitted to the appropriate agencies within 30 days of the date of problem identification. A corrective action plan will be submitted to the agencies for review and approval within 75 days of the date of problem identification. Following approval of the corrective action plan, HGCMC will implement the plan in a timely manner. If removal and/or relocation of animals are required, State of Alaska and Forest Service biologists will be consulted regarding the removal/relocation process. In the event of an emergency need to remove or relocate animals when no biologist is available for consultation, HGCMC will consult with qualified wildlife biologists and submit a summary report of the actions taken to the agencies.

Repair of the low permeability layer will include, but need not be limited to, the following steps:

6. Removal of growth medium from the affected and immediately adjacent area and stockpiling
7. Removal of the damaged areas of the low permeability layer or oxygen-excluding layer
8. Re-installation of the cover components in affected areas to the design performance criteria under the same QA/QC procedures as the original installation. The edges of the re-installed layers will overlap with the adjacent undisturbed layers to assure adequate joining of the layers.
9. Replacement of overlying cover layers to their original design thickness
10. Reseeding/planting as per original design specifications

All such repairs will be undertaken in a manner that minimizes the disturbance to the surrounding reclaimed area. HGCMC will submit an as-built report of the work performed under the corrective action plan to the agencies.

7.1.4. Erosion

All reclaimed areas will be inspected following completion of reclamation activities for signs of excessive erosion. Routine monitoring will include a visual assessment of rills and gullies. Inspections are expected to occur along with the revegetation inspections once a year during the holding period, twice a year during reclamation activities Year 1 through 5 followed by annually until Year 10.

Monitoring of the constructed TDF cover for erosion will be routinely conducted to determine that there is not significant exposure of contiguous areas of low permeability or oxygen excluding layers. This monitoring will verify that there would not be a significant decrease in the performance of the reclaimed soil cover in minimizing infiltration into the pile.

Erosion of applied soil covers and growth media on reclaimed roads, material sites, the 920 area, and other reclaimed areas will be monitored to verify that there is not a significant decrease in the performance of the reclaimed soil cover in supporting vegetation and stabilizing the area. If potentially destructive levels of erosion are identified, HGCMC will notify the appropriate agencies within two business days. In addition, HGCMC will determine the extent of erosion and will submit a report describing the situation identified and probable causes to the appropriate agencies within 30 days of the

date of problem identification. A corrective action plan will be submitted by HGCMC to the appropriate agencies for review and approval within 75 days of the date of problem identification. Following approval of the corrective action plan, HGCMC will implement the plan in a timely manner. This work may include, but need not be limited to, regarding, armoring of drainage features, re-establishment of topsoil thickness, reseeding, and replanting of trees and shrubs.

8. PERFORMANCE GOALS

8.1. Water Quality

8.1.1. Monitoring Requirements

GPO Appendices 1 has the necessary methods, procedures, analysis, data management, and information to fulfill the water quality monitoring requirements. After closure HGCMC will continue to:

- sample and analyze groundwater monitoring wells per the appropriate schedule
- sample and analyze surface water monitoring sites per the appropriate schedule
- sample and analyze sediment and marine organisms, as well as marine receiving waters as long as wastewater discharges continue under the Alaska Pollutant Discharge Elimination System (APDES) permit

If practical, remaining monitoring sites that were used in internal monitoring programs at the TDF will also continue to be monitored during the post-closure monitoring period.

8.1.2. Waiver or Modification

Water quality monitoring will be conducted for not less than five years after completion of reclamation activities and not less than three years after cessation of collection and treatment of contact water (see Section 7.1.4). HGCMC may, however, request modification of the water quality monitoring requirements at any or all monitoring sites. Modifications may include removal of water quality monitoring stations, reduction in monitoring frequency, or changes in constituents monitored. Request for changes in the monitoring requirements at a facility will be contained in a report that demonstrates that all downgradient monitoring stations have been in compliance with AWQS for at least three consecutive years. Additionally, results of monitoring at internal sites must corroborate the finding that water quality downgradient of the facility will not change in the foreseeable future. The report will be submitted by HGCMC to the appropriate agencies for their review and approval prior to changing water quality monitoring practices.

This waiver section should be interpreted jointly with provisions contained in the GPO. Where the waiver provisions contained in this document conflict with the GPO, these provisions supersede until the documents are reconciled.

If a point source discharge permit remains in effect for the components of the mine affected by the request for modification, then HGCMC will also obtain approval for any modifications of the point source discharge permit from ADEC.

8.1.3. Performance Standards and Point of Compliance

The facilities will be in compliance if:

1. all relevant AWQS are met at the downgradient monitoring points specified in the GPO; or
2. accepted detection monitoring statistical analysis, as set out in Section D of the HECLA Greens Creek Quality Assurance Project Plan, as applied to the upgradient and downgradient stations fail to show a statistically significant increase in the constituents; or
3. observed exceedance or increase in constituents is due to natural conditions which have been documented and have been accepted by the regulatory agencies.

These provisions for the reclaimed condition of a facility would supersede the compliance provisions of the GPO that apply to operating conditions once the facility is reclaimed.

8.1.4. Contact Water Management and Post Closure Water Management

During operation of the Greens Creek Mine, water collected from the underground workings, seepage collected beneath WDF (Site 23) and the TDF, and storm water runoff of WDF (Site 23/D), the mill area and the TDF are collected and treated. Collectively, these waters, known as “contact water,” are collected and treated prior to discharge under an APDES permit (Petros GeoConsulting September 2012).

HGCMC plans to phase out collection and conventional treatment of surface storm water (contact water) from some of these sources as areas are reclaimed, the engineered cover is constructed on the TDF, vegetation established, and water monitoring demonstrates the applicable AWQS are met. In order to ensure that water quality will be protected after HGCMC ceases to collect and treat contact water from these sources, the following requirements will be satisfied.

Before HGCMC will be allowed to cease collection and conventional treatment of contact water, a report will be developed by HGCMC for submission to the appropriate agencies. The report will utilize results of analysis from collected samples and a water quality predictive model of the TDF to determine whether AWQS are or will be met at downgradient stations and will include identification of effective treatment methods. Achievement of applicable AWQS at the compliance point can be by any of the following processes alone or in combination: batch treatment using conventional WTP (High Density Sludge Process), reduction in ARD or metals loads due to reclamation practices, deployment of demonstrated biological or other non-conventional treatment techniques, or reliance on natural attenuation mechanisms.

Monitoring described in the GPO will ensure that appropriate water quality standards are met at relevant points of compliance prior to ceasing collection and conventional treatment of the drainage from a particular site following successful reclamation.

Relevant points of compliance will be monitored for a minimum of three years after cessation of collection and treatment of contact water. If violation of the AWQS occurs at the compliance points, then HGCMC will notify the agencies and take corrective actions as required by the GPO and WMP. The corrective actions to be taken may include, but need not be limited to, changes in the passive treatment system, modification of the water management system, re-establishment of conventional treatment, or improvements to the facility reclamation.

Long-term Water Treatment: Long-term water treatment may be required for some components of the contact water through active water treatment facilities. The WTP has the capacity to discharge 2250 gpm via gravity (more if pumped) and has adequate capacity to efficiently treat identified sources from the mine drainage, and seepage from the TDF at closure. The facility will have additional capacity to treat surface water runoff until AWQS are met.

In order to meet the Alaska APDES effluent limits for copper, lead, mercury, and zinc a High-Density Sludge Process WTP is in use during operations, will continue operating after closure, and during post-closure. The use of conventional chemical precipitation technology continues to effectively reduce constituent concentrations to effluent discharge limits.

In order to minimize pumping and post-closure WTP operations, the goal is to develop two new storage ponds located at or below the level of Pond 7 will provide adequate storage of accumulated contact water. Construction of the two ponds will allow full time gravity flow (no pumping) from TDF Wet Well A, Stage 3 above liner drains and the Pond 7 below liner drain. The stored contact water will be batch-treated (pumped to treatment plant when ponds approach capacity).

Water Treatment Plant Sludge Disposal: Sludge from the water treatment plant will be pumped to one or more of the water storage ponds until enough sludge accumulates to warrant batch dewatering and placement at the TDF or an approved solid waste disposal site. Because of the low flow rates and small sludge volume produced, HGCMC estimates that excess storage in Ponds 7 and 10 will allow for many decades of sludge storage. If removal from the pond(s) is warranted, and disposal at the TDF is the preferred option, a small area with drainage containment will be used to accept the sludge. Due to the oxidized character of the sludge, oxygen exclusion will not be necessary and a simple water limiting cover that promotes vegetation will be sufficient to reclaim the area that receives the sludge.

9. ESTIMATE OF RECLAMATION COSTS

The estimated reclamation costs for the various components of the Greens Creek Mine represent general mining industry accepted reclamation and closure methods. An updated version of the Standard Reclamation Cost Estimator (SRCE) Version 1.4.1 Build 16 was used to prepare this cost estimate (Attachment C and D). Assumptions used to develop the cost estimate are discussed in detail in Attachment B.

9.1. Closure Cost Rates

Mobile equipment costs were based on other operating underground, open pit mines and contractor costs in Alaska, and include:

- equipment rental costs
- consumables
- ground-engaging tools
- preventative maintenance

In determining the prevailing labor rates, the Alaska Department of Labor (ADOL) and Workforces Development, Division of Labor Standards and Safety's Laborers' & Mechanics' Minimum Rates of Pay (Pamphlet 600-Issue 51) (Alaska "Little Davis- Bacon") was used and will be updated as the Pamphlet is updated. In case where ADOL costs would be less than the Davis Bacon then the Davis Bacon rates will be used.

Material costs for fuel, concrete, etc., were provided by Alaska vendors. Information provided in the 2025 RS Means Heavy Construction Cost Data, Western Edition, was used where equipment, labor, or material rates were unavailable from other sources.

9.1.1. Closure Cost Productivities

Productivity data and calculations were based on:

- Caterpillar Handbook, Edition 36, for productivity calculations as incorporated into the SRCE.
- Means Heavy Construction Cost Data for productivities/crews for demolition. A large excavator with shears and a medium excavator with grapples were added to the building demolition fleet, but no productivity increase was included because of unfamiliarity with this methodology.
- Use of best estimates and available data to populate the SRCE cost model.

9.1.2. Key Cost Assumptions

The following closure cost assumptions were made:

- Mobile equipment will be rented.
- All structures and infrastructure will be removed.
- No salvage value is assumed for scrap, equipment, or mobile fleet.

9.1.3. Conclusions

Acknowledging the social and environmental responsibility associated with modern mining operations, HGCMC recognizes and commits to the comprehensive closure and reclamation of the Greens Creek Mine site and ancillary facilities. All reclamation activities and post-reclamation maintenance of remaining structures (TDF, mine drainage pipeline, and access road) are the responsibility of HGCMC, unless and until a subsequent landowner assumes responsibility. A modification to the designated post-

mining land use may require further changes to the closure and reclamation plan, along with the timelines for implementing and finalizing closure.

The reclamation cost estimate, as discussed herein and included in Attachment C (see SRCE Cost Summary tab for grand total amount) is sufficient to fund the following:

- all elements of reclamation discussed in this Plan;
- capital to construct future replacements for the WTP for water treatment (100 years);
- reagent and operating costs for the WTP; and
- associated facility and access maintenance.

10. ACKNOWLEDGEMENTS

1. It is understood that should the nature of the operation change that a modified or supplemental plan of operations and reclamation plan may be required.
2. It is understood that approval of this reclamation plan does not constitute:
 - a. Certification of ownership to any person named herein; and
 - b. Recognition of the validity of any mining claims herein.
3. It is understood that a bond equivalent to the estimated cost of performing the agreed-upon reclamation measures would be required before this plan can be approved. Bonding and any bond reduction amounts would be set on a site-specific basis by USFS in coordination with the cooperating agencies (ADEC, and ADNR).
4. It is understood that any information provided with this plan or provided in the future, which is marked “Confidential” would be treated by the agency in accordance with that agency's laws, rules, and regulations.

HGCMC has reviewed and agrees to comply with all conditions in the plan of reclamation. HGCMC understands that the bond would not be released until USFS, ADEC, and ADNR give written approval of the reclamation work.

11. REFERENCES

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GPO Appendix 14
Attachment A
Land Status, Legal Description
& Landowner Authorization

Figure 1: Project and Regional Land Holdings Layout Plan

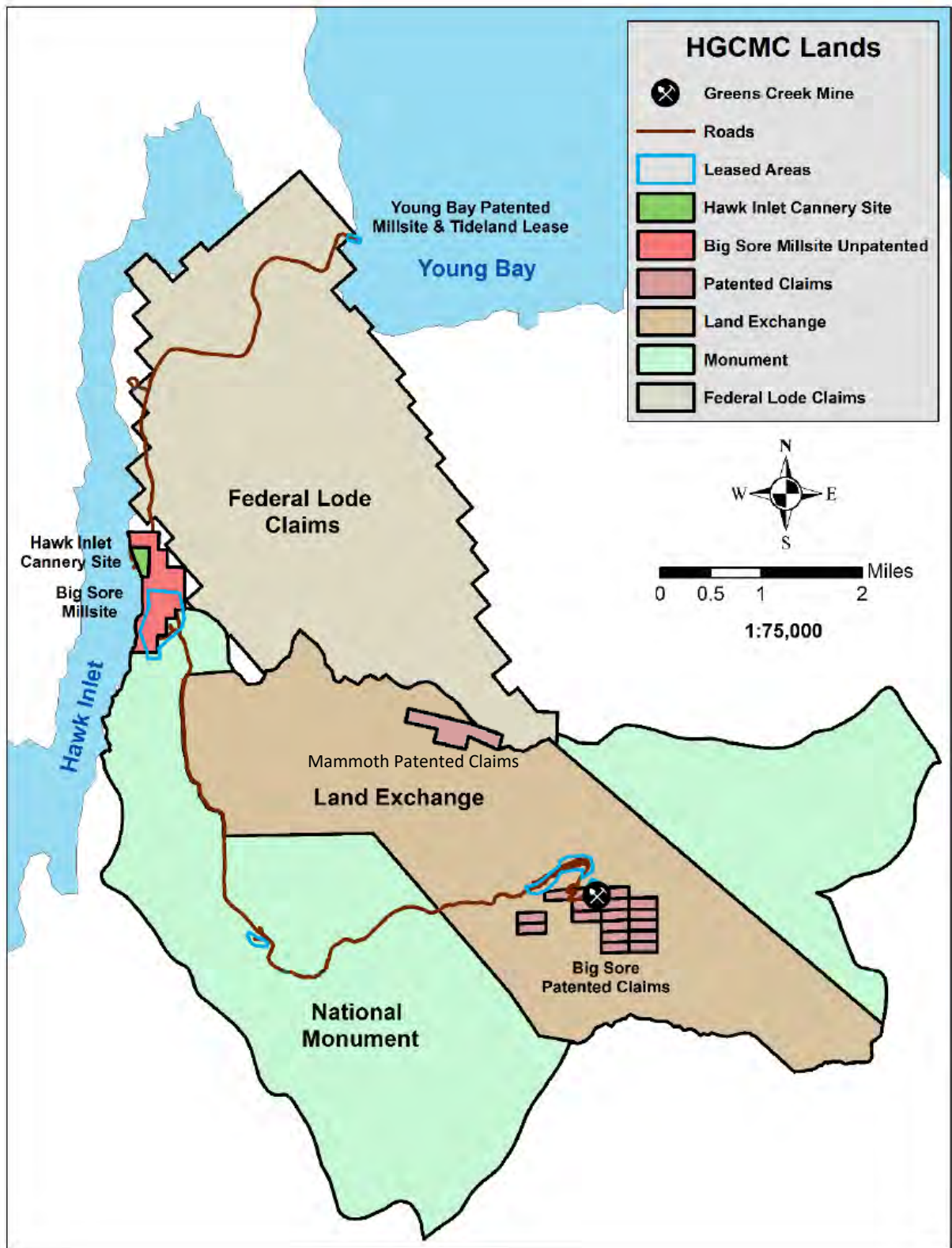


EXHIBIT A
GREENS CREEK - UNPATENTED CLAIMS
BOROUGH OF JUNEAU, STATE OF ALASKA

Owner: Hecla Greens Creek Mining Company
Project: Greens Creek
Borough/County: Juneau
State: Alaska
Meridian: Copper River Meridian

Claim Name	BLM Serial Number	Legacy Serial	Recording Information	Date Of	Township Range Section Quadrant
1 BIG SORE MILLSITE NO. 900	AK106467944	AK AA 077046	Book 394, Page 511-512	10/6/1993	43S 65E 26 NW
2 BIG SORE MILLSITE NO. 901	AK106467945	AK AA 077047	Book 394, Page 513	10/6/1993	43S 65E 26 NW
3 BIG SORE MILLSITE NO. 902	AK106467946	AK AA 077048	Book 394, Page 514	10/6/1993	43S 65E 26 NW
4 BIG SORE MILLSITE NO. 1001	AK106467947	AK AA 077049	Book 394, Page 515	10/6/1993	43S 65E 26 NW
5 BIG SORE MILLSITE NO. 1002	AK106467948	AK AA 077050	Book 394, Page 516	10/6/1993	43S 65E 26 NE
6 BIG SORE MILLSITE NO. 1003	AK106467949	AK AA 077051	Book 394, Page 517	10/6/1993	43S 65E 26 NW
7 BIG SORE MILLSITE NO. 1108	AK106467950	AK AA 077052	Book 394, Page 518	10/5/1993	43S 65E 22 SE
8 BIG SORE MILLSITE NO. 1505	AK106467951	AK AA 077053	Book 394, Page 519	10/7/1993	43S 65E 27 SE, NE
9 BIG SORE MILLSITE NO. 1506	AK106467952	AK AA 077054	Book 394, Page 520	10/7/1993	43S 65E 27 NE
10 BIG SORE MILLSITE NO. 1507	AK106467953	AK AA 077055	Book 394, Page 521	10/7/1993	43S 65E 27 NE
11 BIG SORE MILLSITE NO. 1509	AK106467954	AK AA 077056	Book 394, Page 522	10/6/1993	43S 65E 26 NW
12 BIG SORE MILLSITE NO. 1510	AK106467955	AK AA 077057	Book 394, Page 523	10/6/1993	43S 65E 23 SW
13 BIG SORE MILLSITE NO. 1516	AK106467956	AK AA 077058	Book 394, Page 524	10/6/1993	43S 65E 26 NW, SW
14 BIG SORE MILLSITE NO. 1517	AK106467957	AK AA 077059	Book 394, Page 525	10/6/1993	43S 65E 26 NW
15 BIG SORE MILLSITE NO. 1610	AK106467958	AK AA 077060	Book 394, Page 526	10/5/1993	43S 65E 22 SE
16 BIG SORE MILLSITE NO. 1611	AK106467959	AK AA 077061	Book 394, Page 527	10/5/1993	43S 65E 22 NE
17 BIG SORE MILLSITE NO. 1710	AK106467960	AK AA 077062	Book 394, Page 528	10/5/1993	43S 65E 27 NE
18 BIG SORE MILLSITE NO. 1711	AK106467961	AK AA 077063	Book 394, Page 529	10/5/1993	43S 65E 27 NE
19 BIG SORE MILLSITE NO. 1712	AK106467962	AK AA 077064	Book 394, Page 530	10/5/1993	43S 65E 27 NE
20 BIG SORE MILLSITE NO. 1713	AK106467963	AK AA 077065	Book 394, Page 531	10/5/1993	43S 65E 27 NE
21 BIG SORE MILLSITE NO. 1714	AK106467964	AK AA 077066	Book 394, Page 532	10/5/1993	43S 65E 27 NE
22 BIG SORE MILLSITE NO. 1715	AK106467965	AK AA 077067	Book 394, Page 533	10/5/1993	43S 65E 27 NE
23 BIG SORE MILLSITE NO. 1716	AK106467966	AK AA 077068	Book 394, Page 534	10/5/1993	43S 65E 22 SE
24 BIG SORE MILLSITE NO. 1717	AK106467967	AK AA 077069	Book 394, Page 535	10/5/1993	43S 65E 22 SE
25 BIG SORE MILLSITE NO. 1718	AK106467968	AK AA 077070	Book 394, Page 536	10/5/1993	43S 65E 22 SE
26 BIG SORE MILLSITE NO. 798	AK106656209	AK AA 084088	Document No. 2002-005167-	5/2/2002	43S 65E 23 NW
27 BIG SORE MILLSITE NO. 802	AK106656210	AK AA 084089	Document No. 2002-005168-	5/2/2002	43S 65E 22 NW
28 BIG SORE MILLSITE NO. 803	AK106656211	AK AA 084090	Document No. 2002-005169-	5/2/2002	43S 65E 22 NW
29 BIG SORE MILLSITE NO. 899	AK106656212	AK AA 084091	Document No. 2002-005170-	5/2/2002	43S 65E 22 NW
30 BIG SORE MILLSITE NO. 904	AK106656213	AK AA 084092	Document No. 2002-005171-	5/2/2002	43S 65E 26 NW
31 BIG SORE MILLSITE NO. 905	AK106656214	AK AA 084093	Document No. 2002-005172-	5/2/2002	43S 65E 26 NW
32 BIG SORE MILLSITE NO. 906	AK106656215	AK AA 084094	Document No. 2002-005173-	5/2/2002	43S 65E 23 SW
33 BIG SORE MILLSITE NO. 907	AK106656216	AK AA 084095	Document No. 2002-005174-	5/2/2002	43S 65E 23 SW
34 BIG SORE MILLSITE NO. 996	AK106656217	AK AA 084096	Document No. 2002-005175-	5/2/2002	43S 65E 22 NE
35 BIG SORE MILLSITE NO. 1004	AK106656218	AK AA 084097	Document No. 2002-005176-	5/2/2002	43S 65E 26 NW
36 BIG SORE MILLSITE NO. 1005	AK106656219	AK AA 084098	Document No. 2002-005177-	5/2/2002	43S 65E 23 SW
37 BIG SORE MILLSITE NO. 1006	AK106656220	AK AA 084099	Document No. 2002-005178-	5/2/2002	43S 65E 23 SW
38 BIG SORE MILLSITE NO. 1007	AK106656221	AK AA 084100	Document No. 2002-005179-	5/2/2002	43S 65E 23 SW
39 BIG SORE MILLSITE NO. 1008	AK106656222	AK AA 084101	Document No. 2002-005180-	5/2/2002	43S 65E 23 SW
40 BIG SORE MILLSITE NO. 1009	AK106656223	AK AA 084102	Document No. 2002-005181-	5/2/2002	43S 65E 23 SW
41 BIG SORE MILLSITE NO. 1010	AK106656224	AK AA 084103	Document No. 2002-005182-	5/2/2002	43S 65E 23 NW
42 BIG SORE MILLSITE NO. 1096	AK106656225	AK AA 084104	Document No. 2002-005183-	5/2/2002	43S 65E 22 NE
43 BIG SORE MILLSITE NO. 1097	AK106656226	AK AA 084105	Document No. 2002-005184-	5/2/2002	43S 65E 22 NE
44 BIG SORE MILLSITE NO. 1103	AK106656227	AK AA 084106	Document No. 2002-005185-	5/2/2002	43S 65E 26 NW
45 BIG SORE MILLSITE NO. 1104	AK106656228	AK AA 084107	Document No. 2002-005186-	5/2/2002	43S 65E 23 SW
46 BIG SORE MILLSITE NO. 1105	AK106656229	AK AA 084108	Document No. 2002-005187-	5/2/2002	43S 65E 23 SW
47 BIG SORE MILLSITE NO. 1106	AK106656230	AK AA 084109	Document No. 2002-005188-	5/2/2002	43S 65E 23 SW
48 BIG SORE MILLSITE NO. 1107	AK106656231	AK AA 084110	Document No. 2002-005189-	5/2/2002	43S 65E 23 SW
49 BIG SORE MILLSITE NO. 1202	AK106656232	AK AA 084111	Document No. 2002-005190-	5/2/2002	43S 65E 23 SW
50 BIG SORE MILLSITE NO. 1203	AK106656233	AK AA 084112	Document No. 2002-005191-	5/2/2002	43S 65E 23 SW
51 BIG SORE MILLSITE NO. 1204	AK106656234	AK AA 084113	Document No. 2002-005192-	5/2/2002	43S 65E 23 SW
52 BIG SORE MILLSITE NO. 1205	AK106656235	AK AA 084114	Document No. 2002-005193-	5/2/2002	43S 65E 23 SW
53 BIG SORE MILLSITE NO. 1508	AK106656236	AK AA 084115	Document No. 2002-005194-	5/2/2002	43S 65E 27 NE
54 BIG SORE MILLSITE NO. 1511	AK106544655	AK AA 084116	Document No. 2002-005195-	5/2/2002	43S 65E 23 SW
55 BIG SORE MILLSITE NO. 1514	AK106544656	AK AA 084117	Document No. 2002-005196-	5/2/2002	43S 65E 27 NE
56 BIG SORE MILLSITE NO. 1612	AK106544657	AK AA 084118	Document No. 2002-005197-	5/2/2002	43S 65E 23 SW
57 BIG SORE MILLSITE NO. 1613	AK106544658	AK AA 084119	Document No. 2002-005198-	5/2/2002	43S 65E 23 NW, SW
58 BIG SORE MILLSITE NO. 1614	AK106544659	AK AA 084120	Document No. 2002-005199-	5/2/2002	43S 65E 23 NW
59 BIG SORE 1321	AK106608953	AK AA 025819	Book 125, Page 423	5/13/1975	43S 66E 32, 33
60 BIG SORE 1322	AK106608954	AK AA 025820	Book 126, Page 236	5/13/1975	43S 66E 32, 33
61 BIG SORE 1323	AK106608955	AK AA 025821	Book 126, Page 237	5/13/1975	43S 66E 32, 33
62 BIG SORE 1324	AK106608956	AK AA 025822	Book 126, Page 238	5/13/1975	43S 66E 32, 33
63 BIG SORE 1421	AK106608979	AK AA 025845	Book 126, Page 239	5/13/1975	43S 66E 32

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64	BIG SORE 1422	AK106608980	AK AA 025846	Book 126, Page 240	5/14/1975	43S 66E 32
65	BIG SORE 1423	AK106608981	AK AA 025847	Book 126, Page 241	5/14/1975	43S 66E 32
66	BIG SORE 1424	AK106608982	AK AA 025848	Book 126, Page 242	5/14/1975	43S 66E 32
67	BIG SORE 1521	AK106609001	AK AA 025867	Book 125, Page 437	5/13/1975	43S 66E 32
68	BIG SORE 1522	AK106609002	AK AA 025868	Book 125, Page 438	5/13/1975	43S 66E 32
69	BIG SORE 1523	AK106609003	AK AA 025869	Book 125, Page 439	5/13/1975	43S 66E 32
70	BIG SORE 1524	AK106609004	AK AA 025870	Book 125, Page 440	5/13/1975	43S 66E 32
71	BIG SORE 1623	AK106609022	AK AA 025888	Book 125, Page 448	9/27/1974	43S 66E 31, 32
72	BIG SORE 1624	AK106609023	AK AA 025889	Book 125, Page 449	9/27/1974	43S 66E 31, 32
73	BIG SORE 1625	AK106609024	AK AA 025890	Book 125, Page 450	9/27/1974	43S 66E 29, 30, 31, 32
74	BIG SORE 1626	AK106609025	AK AA 025891	Book 125, Page 451	9/27/1974	43S 66E 29, 30
75	BIG SORE 1627	AK106609026	AK AA 025892	Book 125, Page 452	9/27/1974	43S 66E 29, 30
76	BIG SORE 1723	AK106609043	AK AA 025909	Book 125, Page 459	5/13/1975	43S 66E 31
77	BIG SORE 1724	AK106609044	AK AA 025910	Book 125, Page 460	5/13/1975	43S 66E 31
78	BIG SORE 1725	AK106609045	AK AA 025911	Book 125, Page 461	5/13/1975	43S 66E 30, 31
79	BIG SORE 1726	AK106609046	AK AA 025912	Book 125, Page 462	5/13/1975	43S 66E 30
80	BIG SORE 1727	AK106609047	AK AA 025913	Book 125, Page 463	5/13/1975	43S 66E 30
81	BIG SORE 1728	AK106609048	AK AA 025914	Book 125, Page 464	5/13/1975	43S 66E 30
82	BIG SORE 1824	AK106683322	AK AA 025929	Book 125, Page 479	9/27/1974	43S 66E 31
83	BIG SORE 1825	AK106683323	AK AA 025930	Book 125, Page 480	9/27/1974	43S 66E 30, 31
84	BIG SORE 1826	AK106683324	AK AA 025931	Book 125, Page 481	9/27/1974	43S 66E 30
85	BIG SORE 1827	AK106683325	AK AA 025932	Book 125, Page 482	9/27/1974	43S 66E 30
86	MARIPOSITE 1	AK106680972	AK AA 055244	Book 254, Page 238	1/23/1985	43S 65E 13 SE, SW
87	MARIPOSITE 2	AK106680973	AK AA 055245	Book 254, Page 239	1/23/1985	43S 65E 13 SE, SW
88	MARIPOSITE 3	AK106680974	AK AA 055246	Book 254, Page 240	1/23/1985	43S 65E 13 SE, SW; 24 NW
89	MARIPOSITE 4	AK106680975	AK AA 055247	Book 254, Page 241	1/23/1985	43S 65E 13 SW, 24 NW
90	MARIPOSITE 5	AK106680976	AK AA 055248	Book 254, Page 242	1/23/1985	43S 65E 13 SW, 24 NW
91	MARIPOSITE 6	AK106680977	AK AA 055249	Book 279, Page 233	1/23/1985	43S 65E 13 SW, 24 NW
92	MARIPOSITE 7	AK106680978	AK AA 055250	Book 279, Page 234	1/23/1985	43S 65E 23 SW, 24 NW
93	MARIPOSITE 8	AK106680979	AK AA 055251	Book 251, Page 962	1/23/1985	43S 65E 13 SE, 24 NE
94	MARIPOSITE 9	AK106680980	AK AA 055252	Book 251, Page 963	1/23/1985	43S 65E 13 SE, 24 NE
95	MARIPOSITE 10	AK106680981	AK AA 055253	Book 251, Page 964	1/23/1985	43S 65E 13 SE, SW; 24 NW
96	MARIPOSITE 11	AK106680982	AK AA 055254	Book 279, Page 235	1/23/1985	43S 65E 24 NE, NW
97	MARIPOSITE 12	AK106680983	AK AA 055255	Book 279, Page 236	1/23/1985	43S 65E 24 NE, NW
98	MARIPOSITE 13	AK106680984	AK AA 055256	Book 279, Page 237	1/23/1985	43S 65E 24 NW
99	MARIPOSITE 14	AK106680985	AK AA 055257	Book 279, Page 238	1/23/1985	43S 65E 24 NW
100	MARIPOSITE 15	AK106680986	AK AA 055258	Book 251, Page 969	1/23/1985	43S 65E 24 NE; 43S 66E 19 NW
101	MARIPOSITE 16	AK106680987	AK AA 055259	Book 254, Page 245	1/24/1985	43S 65E 24 NE
102	MARIPOSITE 17	AK106680988	AK AA 055260	Book 254, Page 246	1/24/1985	43S 65E 24 NE
103	MARIPOSITE 18	AK106680989	AK AA 055261	Book 254, Page 247	1/24/1985	43S 65E 24 NE
104	MARIPOSITE 19	AK106680990	AK AA 055262	Book 254, Page 248	1/24/1985	43S 65E 24 NE, NW, SE
105	MARIPOSITE 20	AK106680991	AK AA 055263	Book 254, Page 249	1/24/1985	43S 65E 24 NE, SE, SW
106	MARIPOSITE 21	AK106680992	AK AA 055264	Book 254, Page 250	1/24/1985	43S 65E 24 NW, SE, SW
107	MARIPOSITE 22	AK106680993	AK AA 055265	Book 251, Page 976	1/24/1985	43S 65E 24 NE; 43S 66E 19 NW, SW
108	MARIPOSITE 23	AK106680994	AK AA 055266	Book 251, Page 977	1/24/1985	43S 65E 24 NE; 43S 66E 19 SW
109	MARIPOSITE 24	AK106680995	AK AA 055267	Book 251, Page 978	1/24/1985	43S 65E 24 NE, SE; 43S 66E 19 SW
110	MARIPOSITE 25	AK106680996	AK AA 055268	Book 279, Page 239	1/24/1985	43S 65E 24 NE, SE
111	MARIPOSITE 26	AK106680997	AK AA 055269	Book 279, Page 240	1/24/1985	43S 65E 24 SE
112	MARIPOSITE 27	AK106680998	AK AA 055270	Book 279, Page 241	1/24/1985	43S 65E 24 SE
113	MARIPOSITE 28	AK106680999	AK AA 055271	Book 279, Page 242	1/24/1985	43S 65E 24 SE
114	MARIPOSITE 29	AK106681000	AK AA 055272	Book 279, Page 243	2/13/1985	43S 66E 19 NW, SW
115	MARIPOSITE 30 WITNESS POST	AK106681001	AK AA 055273	Book 279, Page 244	1/25/1985	43S 66E 19 SW
116	MARIPOSITE 31	AK106681002	AK AA 055274	Book 279, Page 245	2/13/1985	43S 65E 24 SE, 43S 66E 19 SW
117	MARIPOSITE 32	AK106681003	AK AA 055275	Book 279, Page 246	2/13/1985	43S 65E 24 SE, 43S 66E 19 SW
118	MARIPOSITE 33	AK106681004	AK AA 055276	Book 279, Page 247	2/13/1985	43S 65E 24 SE, 43S 66E 19 SW
119	MARIPOSITE 34	AK106681005	AK AA 055277	Book 254, Page 256	2/13/1985	43S 65E 24 SE, 25 NE
120	MARIPOSITE 35	AK106681006	AK AA 055278	Book 254, Page 257	2/13/1985	43S 65E 24 SE, 25 NE
121	MARIPOSITE 36	AK106681007	AK AA 055279	Book 279, Page 248	2/13/1985	43S 66E 19 SW, SE
122	MARIPOSITE 37	AK106681008	AK AA 055280	Book 279, Page 249	2/13/1985	43S 66E 19 SW, 30 NW
123	MARIPOSITE 38	AK106681009	AK AA 055281	Book 251, Page 992	2/13/1985	43S 66E 19 SW, 30 NW
124	MARIPOSITE 39	AK106681010	AK AA 055282	Book 251, Page 993	2/13/1985	43S 66E 19 SW, 30 NW
125	MARIPOSITE 40	AK106681011	AK AA 055283	Book 251, Page 994	2/13/1985	43S 66E 19 SW, 30 NW
126	MARIPOSITE 41	AK106681012	AK AA 055284	Book 251, Page 995	2/13/1985	43S 65E 25 NE, 43S 66E 30 NW
127	MARIPOSITE 42	AK106681013	AK AA 055285	Book 251, Page 996	2/13/1985	43S 65E 25 NE, 43S 66E 30 NW
128	MARIPOSITE 43	AK106681014	AK AA 055286	Book 251, Page 997	2/2/1985	43S 66E 20 NW, SW
129	MARIPOSITE 44	AK106681015	AK AA 055287	Book 251, Page 998	2/2/1985	43S 66E 19 SE, 20 SW
130	MARIPOSITE 45	AK106681016	AK AA 055288	Book 251, Page 999	2/2/1985	43S 66E 19 SE, 20 SW
131	MARIPOSITE 46	AK106681017	AK AA 055289	Book 252, Page 1	2/2/1985	43S 66E 19 SE, 20 SW
132	MARIPOSITE 47	AK106681018	AK AA 055290	Book 252, Page 2	2/2/1985	43S 66E 19 SE, 30 NE
133	MARIPOSITE 48	AK106681019	AK AA 055291	Book 252, Page 3	2/2/1985	43S 66E 19 SE, 30 NE

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134	MARIPOSITE 49	AK106681020	AK AA 055292	Book 252, Page 4	2/2/1985	43S 66E 19 SE, SW; 30 NE
135	MARIPOSITE 50	AK106681021	AK AA 055293	Book 254, Page 258	2/3/1985	43S 66E 19 SE, SW; 30 NE
136	MARIPOSITE 51	AK106681022	AK AA 055294	Book 254, Page 259	2/3/1985	43S 66E 30 NE, NW
137	MARIPOSITE 52	AK106681023	AK AA 055295	Book 254, Page 260	2/3/1985	43S 66E 30 NE, NW
138	MARIPOSITE 53	AK106681024	AK AA 055296	Book 254, Page 261	2/3/1985	43S 66E 30 NW
139	MARIPOSITE 54	AK106681025	AK AA 055297	Book 254, Page 262	2/3/1985	43S 66E 30 NW, SW
140	MARIPOSITE 55	AK106681026	AK AA 055298	Book 254, Page 263	2/3/1985	43S 66E 30 NW, SW
141	MARIPOSITE 56	AK106681027	AK AA 055299	Book 254, Page 264	2/2/1985	43S 66E 20 SW, 29 NW
142	MARIPOSITE 57	AK106681028	AK AA 055300	Book 254, Page 265	2/2/1985	43S 66E 19 SE, 20 SW, 29 NW
143	MARIPOSITE 58	AK106681029	AK AA 055301	Book 254, Page 266	2/2/1985	43S 66E 19 SE, 29 NW, 30 NE
144	MARIPOSITE 59	AK106681030	AK AA 055302	Book 254, Page 267	2/2/1985	43S 66E 29 NW, 30 NE
145	MARIPOSITE 60	AK106681031	AK AA 055303	Book 254, Page 268	2/2/1985	43S 66E 30 NE
146	MARIPOSITE 61	AK106681032	AK AA 055304	Book 252, Page 16	2/3/1985	43S 66E 30 NE
147	MARIPOSITE 62	AK106681033	AK AA 055305	Book 252, Page 17	2/3/1985	43S 66E 30 NE, SE
148	MARIPOSITE 63	AK106681034	AK AA 055306	Book 252, Page 18	2/3/1985	43S 66E 30 NE, NW, SE
149	MARIPOSITE 64	AK106681035	AK AA 055307	Book 252, Page 19	2/3/1985	43S 66E 30 NE, NW, SE
150	MARIPOSITE 65	AK106681036	AK AA 055308	Book 252, Page 20	2/3/1985	43S 66E 30 NW, SE, SW
151	MARIPOSITE 66	AK106681037	AK AA 055309	Book 252, Page 21	2/3/1985	43S 66E 30 SW
152	MARIPOSITE 67	AK106681038	AK AA 055310	Book 254, Page 269	2/5/1985	43S 66E 29 NW
153	MARIPOSITE 68	AK106681039	AK AA 055311	Book 254, Page 270	2/5/1985	43S 66E 29 NW, SW; 30 NE
154	MARIPOSITE 69	AK106681040	AK AA 055312	Book 254, Page 271	2/5/1985	43S 66E 29 NW, SW; 30 SE
155	MARIPOSITE 70	AK106681041	AK AA 055313	Book 254, Page 272	2/4/1985	43S 66E 30 NE, SE
156	MARIPOSITE 71	AK106681042	AK AA 055314	Book 252, Page 26	2/5/1985	43S 66E 30 NE, SE
157	MARIPOSITE 72	AK106681043	AK AA 055315	Book 252, Page 27	2/5/1985	43S 66E 30 SE
158	MARIPOSITE 73	AK106681044	AK AA 055316	Book 254, Page 273	2/5/1985	43S 66E 29 NW, SW
159	MARIPOSITE 74	AK106681045	AK AA 055317	Book 254, Page 274	2/5/1985	43S 66E 29 NW, SW
160	MARIPOSITE 75	AK106681046	AK AA 055318	Book 254, Page 275	2/5/1985	43S 66E 29 SW
161	MARIPOSITE 76	AK106681047	AK AA 055319	Book 254, Page 276	2/4/1985	43S 66E 29 SW, 30 SE
162	MARIPOSITE 77	AK106681048	AK AA 055320	Book 252, Page 32	2/4/1985	43S 66E 29 SW, 30 SE
163	MARIPOSITE 79	AK106681050	AK AA 055322	Book 254, Page 278	2/5/1985	43S 66E 29 SE, SW
164	MARIPOSITE 80	AK106681051	AK AA 055323	Book 254, Page 279	2/4/1985	43S 66E 29 SW, 32 NW
165	MARIPOSITE 81	AK106681052	AK AA 055324	Book 252, Page 36	2/4/1985	43S 66E 29 SW, 32 NW
166	MARIPOSITE 82	AK106681053	AK AA 055325	Book 254, Page 280	2/5/1985	43S 66E 29 SE, 32 NE
167	MARIPOSITE 83	AK106681054	AK AA 055326	Book 254, Page 281	2/5/1985	43S 66E 29 SW, 32 NE
168	MARIPOSITE 84	AK106681055	AK AA 055327	Book 254, Page 282	2/4/1985	43S 66E 32 NW
169	MARIPOSITE 85	AK106681056	AK AA 055328	Book 254, Page 283	2/5/1985	43S 66E 32 NE
170	MARIPOSITE 86	AK106681057	AK AA 055329	Book 254, Page 284	2/5/1985	43S 66E 32 NE
171	FOWLER 543	AK106558485	AK AA 057281	Book 262, Page 546	10/3/1985	43S 65E 01 SE, SW; 12 NE, NW
172	FOWLER 544	AK106558486	AK AA 057282	Book 262, Page 548	10/3/1985	43S 65E 01 SW; 12 NE, NW
173	FOWLER 545	AK106558487	AK AA 057283	Book 262, Page 549	10/3/1985	43S 65E 01 SW, 12 NW
174	FOWLER 546	AK106558488	AK AA 057284	Book 262, Page 550	10/3/1985	43S 65E 12 NW
175	FOWLER 547	AK106558489	AK AA 057285	Book 262, Page 551	9/29/1985	43S 65E 12 NW
176	FOWLER 548	AK106558490	AK AA 057286	Book 262, Page 552	9/29/1985	43S 65E 11 NE, 12 NW
177	FOWLER 549	AK106558491	AK AA 057287	Book 262, Page 553	9/29/1985	43S 65E 11 NE, SE; 12 NW, SW
178	FOWLER 550	AK106558492	AK AA 057288	Book 262, Page 554	10/3/1985	43S 65E 11 NE, SE
179	FOWLER 551	AK106558493	AK AA 057289	Book 262, Page 555	9/29/1985	43S 65E 11 NE, SE
180	FOWLER 552	AK106558494	AK AA 057290	Book 262, Page 556	9/29/1985	43S 65E 11 NE, SE
181	FOWLER 553	AK106558495	AK AA 057291	Book 262, Page 557	9/29/1985	43S 65E 11 SE, SW
182	FOWLER 554	AK106558496	AK AA 057292	Book 262, Page 558	9/29/1985	43S 65E 11 SE, SW
183	FOWLER 555	AK106558497	AK AA 057293	Book 262, Page 559	9/29/1985	43S 65E 11 SW, 14 NE
184	FOWLER 556	AK106558498	AK AA 057294	Book 262, Page 560	9/29/1985	43S 65E 11 SW, 14 NW
185	FOWLER 557	AK106558499	AK AA 057295	Book 262, Page 561	9/29/1985	43S 65E 11 SW, 14 NW
186	FOWLER 558	AK106558500	AK AA 057296	Book 262, Page 562	9/29/1985	43S 65E 11 SW, 14 NW
187	FOWLER 643	AK106558501	AK AA 057297	Book 262, Page 563	9/29/1985	43S 65E 12 NE
188	FOWLER 644	AK106558502	AK AA 057298	Book 262, Page 564	9/29/1985	43S 65E 12 NE, NW
189	FOWLER 645	AK106558503	AK AA 057299	Book 262, Page 565	9/29/1985	43S 65E 12 NE, NW
190	FOWLER 646	AK106558504	AK AA 057300	Book 262, Page 566	9/29/1985	43S 65E 12 NW, SW
191	FOWLER 647	AK106558505	AK AA 057301	Book 262, Page 567	9/29/1985	43S 65E 12 NW, SW
192	FOWLER 648	AK106558506	AK AA 057302	Book 262, Page 568	9/29/1985	43S 65E 12 NW, SW
193	FOWLER 649	AK106558507	AK AA 057303	Book 262, Page 569	9/29/1985	43S 65E 12 NW, SW
194	FOWLER 650	AK106558508	AK AA 057304	Book 262, Page 570	9/29/1985	43S 65E 11 SE, 12 SW
195	FOWLER 651	AK106558509	AK AA 057305	Book 262, Page 571	9/28/1985	43S 65E 11 SE, 12 SW
196	FOWLER 652	AK106558510	AK AA 057306	Book 262, Page 572	9/29/1985	43S 65E 11 SE
197	FOWLER 653	AK106558511	AK AA 057307	Book 262, Page 573	9/29/1985	43S 65E 11 SE, 14 NE
198	FOWLER 654	AK106558512	AK AA 057308	Book 262, Page 574	9/29/1985	43S 65E 11 SE, 14 NE
199	FOWLER 655	AK106558513	AK AA 057309	Book 262, Page 575	9/29/1985	43S 65E 11 SE, SW; 14 NE
200	FOWLER 656	AK106558514	AK AA 057310	Book 262, Page 576	9/29/1985	43S 65E 14 NE, NW
201	FOWLER 657	AK106558515	AK AA 057311	Book 262, Page 577	9/29/1985	43S 65E 14 NE, NW
202	FOWLER 658	AK106558516	AK AA 057312	Book 262, Page 578	9/29/1985	43S 65E 14 NW
203	FOWLER 743	AK106558517	AK AA 057313	Book 262, Page 579	10/3/1985	43S 65E 12 NE

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204	FOWLER 744	AK106558518	AK AA 057314	Book 262, Page 580	10/3/1985	43S 65E 12 NE, SE
205	FOWLER 745	AK106558519	AK AA 057315	Book 262, Page 581	10/3/1985	43S 65E 12 NE, SE
206	FOWLER 746	AK106558520	AK AA 057316	Book 262, Page 582	10/3/1985	43S 65E 12 NE, SE
207	FOWLER 747	AK106558521	AK AA 057317	Book 262, Page 583	10/3/1985	43S 65E 12 SE, SW
208	FOWLER 748	AK106558522	AK AA 057318	Book 262, Page 584	10/3/1985	43S 65E 12 SE, SW
209	FOWLER 749	AK106558523	AK AA 057319	Book 262, Page 585	10/3/1985	43S 65E 12 SW
210	FOWLER 750	AK106558524	AK AA 057320	Book 262, Page 586	10/3/1985	43S 65E 12 SW, 13 NE
211	FOWLER 751	AK106558525	AK AA 057321	Book 262, Page 587	10/2/1985	43S 65E 12 SW, 13 NW
212	FOWLER 752	AK106558526	AK AA 057322	Book 262, Page 588	10/2/1985	43S 65E 11 SE, 12 SW, 13 NW, 14 NE
213	FOWLER 753	AK106558527	AK AA 057323	Book 262, Page 589	10/2/1985	43S 65E 11 SE, 13 NW, 14 NE
214	FOWLER 754	AK106558528	AK AA 057324	Book 262, Page 590	10/2/1985	43S 65E 14 NW
215	FOWLER 755	AK106558529	AK AA 057325	Book 262, Page 591	10/2/1985	43S 65E 14 NE
216	FOWLER 756	AK106558530	AK AA 057326	Book 262, Page 592	10/2/1985	43S 65E 14 NE
217	FOWLER 757	AK106558531	AK AA 057327	Book 262, Page 593	10/2/1985	43S 65E 14 NE, SE
218	FOWLER 758	AK106558532	AK AA 057328	Book 262, Page 594	10/2/1985	43S 65E 14 NE, NW, SE, SW
219	FOWLER 843	AK106558533	AK AA 057329	Book 262, Page 595	9/30/1985	43S 65E 12 NE, SE; 43S 66E 07 NW
220	FOWLER 844	AK106558534	AK AA 057330	Book 262, Page 596	9/30/1985	43S 65E 12 SE; 43S 66E 07 NW
221	FOWLER 845	AK106558535	AK AA 057331	Book 262, Page 597	9/30/1985	43S 65E 12 SE
222	FOWLER 846	AK106558536	AK AA 057332	Book 262, Page 598	9/30/1985	43S 65E 12 SE
223	FOWLER 847	AK106558537	AK AA 057333	Book 262, Page 599	9/30/1985	43S 65E 12 SE, 13 NE
224	FOWLER 848	AK106558538	AK AA 057334	Book 262, Page 600	9/30/1985	43S 65E 12 SE, SW; 13 NE
225	FOWLER 849	AK106558539	AK AA 057335	Book 262, Page 601	9/30/1985	43S 65E 12 SE, SW; 13 NE, NW
226	FOWLER 850	AK106558540	AK AA 057336	Book 262, Page 602	9/30/1985	43S 65E 12 SW, 13 NE, NW
227	FOWLER 851	AK106558541	AK AA 057337	Book 262, Page 603	9/28/1985	43S 65E 13 NW
228	FOWLER 852	AK106558542	AK AA 057338	Book 262, Page 604	9/28/1985	43S 65E 13 NW
229	FOWLER 853	AK106558543	AK AA 057339	Book 262, Page 605	9/28/1985	43S 65E 13 NW
230	FOWLER 854	AK106558544	AK AA 057340	Book 262, Page 606	9/28/1985	43S 65E 13 NW, SW; 14 NE
231	FOWLER 855	AK106558545	AK AA 057341	Book 262, Page 607	9/28/1985	43S 65E 13 NW, SW; 14 NE, SE
232	FOWLER 856	AK106558546	AK AA 057342	Book 262, Page 608	9/28/1985	43S 65E 13 SW; 14 NE, SE
233	FOWLER 857	AK106558547	AK AA 057343	Book 262, Page 609	9/28/1985	43S 65E 14 SE
234	FOWLER 858	AK106558548	AK AA 057344	Book 262, Page 610	9/28/1985	43S 65E 14 SE
235	FOWLER 943	AK106558549	AK AA 057345	Book 262, Page 611	9/30/1985	43S 66E 07 SW
236	FOWLER 944	AK106558550	AK AA 057346	Book 262, Page 612	9/30/1985	43S 66E 07 SW, 18 NW
237	FOWLER 945	AK106558551	AK AA 057347	Book 262, Page 613	9/30/1985	43S 65E 12 SE; 43S 66E 07 SW, 18 NW
238	FOWLER 946	AK106558552	AK AA 057348	Book 262, Page 614	9/30/1985	43S 65E 12 SE, 13 NE; 43S 66E 18 NW
239	FOWLER 947	AK106558553	AK AA 057349	Book 262, Page 615	9/30/1985	43S 65E 12 SE, 13 NE
240	FOWLER 948	AK106558554	AK AA 057350	Book 262, Page 616	9/30/1985	43S 65E 13 NE
241	FOWLER 949	AK106558555	AK AA 057351	Book 262, Page 617	9/30/1985	43S 65E 13 NE
242	FOWLER 950	AK106558556	AK AA 057352	Book 262, Page 618	9/30/1985	43S 65E 13 NE, NW
243	FOWLER 951	AK106558557	AK AA 057353	Book 262, Page 619	9/28/1985	43S 65E 13 NE, NW, SE
244	FOWLER 952	AK106558558	AK AA 057354	Book 262, Page 620	9/28/1985	43S 65E 13 NW, SE, SW
245	FOWLER 953	AK106558559	AK AA 057355	Book 262, Page 621	9/28/1985	43S 65E 13 NW, SW
246	FOWLER 954	AK106558560	AK AA 057356	Book 262, Page 622	9/28/1985	43S 65E 13 SW
247	FOWLER 955	AK106558561	AK AA 057357	Book 262, Page 623	9/28/1985	43S 65E 13 SW
248	FOWLER 956	AK106558562	AK AA 057358	Book 262, Page 624	9/28/1985	43S 65E 13 SW, 14 SE
249	FOWLER 957	AK106558563	AK AA 057359	Book 262, Page 625	9/28/1985	43S 65E 13 SW, 14 SE
250	FOWLER 958	AK106558564	AK AA 057360	Book 262, Page 626	10/2/1985	43S 65E 13 SW, 14 SE, 23 NE
251	FOWLER 1043	AK106558565	AK AA 057361	Book 262, Page 627	10/1/1985	43S 66E 07 SW; 18 NE, NW
252	FOWLER 1044	AK106558566	AK AA 057362	Book 262, Page 628	10/1/1985	43S 66E 07 SW, 18 NW
253	FOWLER 1045	AK106558567	AK AA 057363	Book 262, Page 629	10/1/1985	43S 66E 18 NW
254	FOWLER 1046	AK106558568	AK AA 057364	Book 262, Page 630	10/2/1985	43S 66E 18 NW
255	FOWLER 1047	AK106558569	AK AA 057365	Book 262, Page 631	10/1/1985	43S 65E 13 NE; 43S 66E 18 NW
256	FOWLER 1143	AK106558570	AK AA 057366	Book 262, Page 632	10/1/1985	43S 66E 18 NE, NW
257	FOWLER 1144	AK106558571	AK AA 057367	Book 262, Page 633	10/1/1985	43S 66E 18 NE, NW
258	FOWLER 1145	AK106558572	AK AA 057368	Book 262, Page 634	10/1/1985	43S 66E 18 NE, NW, SE, SW
259	FOWLER 1146	AK106558573	AK AA 057369	Book 262, Page 635	10/1/1985	43S 66E 18 NW, SW
260	FOWLER 1147	AK106558574	AK AA 057370	Book 262, Page 636	10/1/1985	43S 66E 18 NW, SW
261	MARIPOSITE 87	AK106521558	AK AA 063033	Book 292, Page 664	8/20/1987	43S 66E 29 SW, 30 SE
262	MARIPOSITE 100	AK106689820	AK AA 071489	Book 320, Page 601	6/30/1989	43S 65E 24 SE, 25 NE
263	MARIPOSITE 101	AK106689821	AK AA 071490	Book 320, Page 602	6/30/1989	43S 65E 25 NE, NW
264	MARIPOSITE 102	AK106689822	AK AA 071491	Book 320, Page 603	6/30/1989	43S 65E 25 NE, NW
265	MARIPOSITE 103	AK106689823	AK AA 071492	Book 320, Page 604	6/30/1989	43S 65E 25 NE, 43S 66E 30 NW
266	MARIPOSITE 104	AK106689824	AK AA 071493	Book 320, Page 605	6/30/1989	43S 65E 25 NE, SE; 43S 66E 30 NW, SW
267	MARIPOSITE 105	AK106689825	AK AA 071494	Book 320, Page 606	6/30/1989	43S 65E 25 NE, SE
268	MARIPOSITE 106	AK106689826	AK AA 071495	Book 320, Page 607	6/30/1989	43S 65E 25 NE, SE
269	MARIPOSITE 107	AK106689827	AK AA 071496	Book 320, Page 608	6/29/1989	43S 66E 30 NW, SW
270	MARIPOSITE 108	AK106689828	AK AA 071497	Book 320, Page 609	6/29/1989	43S 65E 25 SE; 43S 66E 30 NW, SW
271	MARIPOSITE 109	AK106689829	AK AA 071498	Book 320, Page 610	6/29/1989	43S 65E 25 SE, 43S 66E 30 SW
272	MARIPOSITE 110	AK106689830	AK AA 071499	Book 320, Page 611	6/29/1989	43S 65E 25 SE, 43S 66E 30 SW
273	MARIPOSITE 111	AK106689831	AK AA 071500	Book 320, Page 612	6/28/1989	43S 66E 30 SW

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274	MARIPOSITE 112	AK106689832	AK AA 071501	Book 320, Page 613	7/8/1989	43S 65E 24 SE, SW
275	MARIPOSITE 113	AK106689833	AK AA 071502	Book 320, Page 614	7/8/1989	43S 65E 24 NE, SW; 25 NE
276	MARIPOSITE 114	AK106689834	AK AA 071503	Book 320, Page 615	7/9/1989	43S 65E 24 SW, 25 NW
277	LIL SORE 41	AK106588700	AK AA 078220	Book 443, Page 333-335	2/18/1996	43S 66E 18 NE, SE
278	LIL SORE 42	AK106588701	AK AA 078221	Book 443, Page 336-338	2/19/1996	43S 66E 18 NE, SE
279	LIL SORE 43	AK106588702	AK AA 078222	Book 443, Page 339-341	2/19/1996	43S 66E 18 SE, SW
280	LIL SORE 44	AK106588703	AK AA 078223	Book 443, Page 342-344	2/19/1996	43S 66E 18 SE, SW
281	LIL SORE 45	AK106588704	AK AA 078224	Book 443, Page 345-347	2/19/1996	43S 66E 17 SW, 18 SE
282	LIL SORE 46	AK106588705	AK AA 078225	Book 443, Page 348-350	2/19/1996	43S 66E 18 SE
283	LIL SORE 47	AK106588706	AK AA 078226	Book 443, Page 351-353	2/19/1996	43S 66E 18 SE, 19 NE
284	LIL SORE 48	AK106588707	AK AA 078227	Book 443, Page 354-356	2/19/1996	43S 66E 18 SE, 19 NE, 20 NW
285	EAST FOWLER 538	AK106588708	AK AA 078228	Book 443, Page 357-359	2/19/1996	43S 65E 01 SE
286	EAST FOWLER 539	AK106588709	AK AA 078229	Book 443, Page 360-362	2/19/1996	43S 65E 01 SE
287	EAST FOWLER 540	AK106588710	AK AA 078230	Book 443, Page 363-365	2/19/1996	43S 65E 01 SE
288	EAST FOWLER 541	AK106588711	AK AA 078231	Book 443, Page 366-368	2/19/1996	43S 65E 01 SE
289	EAST FOWLER 542	AK106588712	AK AA 078232	Book 443, Page 369-371	2/19/1996	43S 65E 01 SE, SW; 12 NE
290	EAST FOWLER 641	AK106588713	AK AA 078233	Book 443, Page 372-374	2/19/1996	43S 65E 01 SE, 12 NE
291	EAST FOWLER 642	AK106588714	AK AA 078234	Book 443, Page 375-377	2/19/1996	43S 65E 01 SE, 12 NE
292	EAST FOWLER 741	AK106588715	AK AA 078235	Book 443, Page 378-380	2/19/1996	43S 65E 12 NE, 43S 66E 07 NW
293	EAST FOWLER 742	AK106588716	AK AA 078236	Book 443, Page 381-383	2/19/1996	43S 65E 12 NE, 43S 66E 07 NW
294	EAST FOWLER 841	AK106588717	AK AA 078237	Book 443, Page 384-386	2/19/1996	43S 66E 07 NW, SW
295	EAST FOWLER 842	AK106588718	AK AA 078238	Book 443, Page 387-389	2/19/1996	43S 65E 12 NE; 43S 66E 07 NW, SW
296	EAST FOWLER 941	AK106588719	AK AA 078239	Book 443, Page 390-392	2/19/1996	43S 66E 07 SW
297	EAST FOWLER 942	AK106588720	AK AA 078240	Book 443, Page 393-395	2/19/1996	43S 66E 07 SW
298	EAST FOWLER 1042	AK106588721	AK AA 078241	Book 443, Page 396-398	2/19/1996	43S 66E 07 SE, SW; 18 NE, NW
299	WEST MARIPOSITE 115	AK106588722	AK AA 078242	Book 443, Page 162-164	2/18/1996	43S 65E 23 NE, 24 NW
300	WEST MARIPOSITE 116	AK106588723	AK AA 078243	Book 443, Page 165-167	2/18/1996	43S 65E 23 NE, 24 NW
301	WEST MARIPOSITE 117	AK106588724	AK AA 078244	Book 443, Page 168-170	2/18/1996	43S 65E 23 NE, 24 NW
302	WEST MARIPOSITE 118	AK106588725	AK AA 078245	Book 443, Page 171-173	2/18/1996	43S 65E 23 NE, SE
303	WEST MARIPOSITE 119	AK106588726	AK AA 078246	Book 443, Page 174-176	2/18/1996	43S 65E 23 NE, SE
304	WEST MARIPOSITE 120	AK106588727	AK AA 078247	Book 443, Page 177-179	2/18/1996	43S 65E 23 NE, SE
305	WEST MARIPOSITE 121	AK106588728	AK AA 078248	Book 443, Page 180-182	2/18/1996	43S 65E 23 NE, SE, SW
306	WEST MARIPOSITE 122	AK106588729	AK AA 078249	Book 443, Page 183-185	2/18/1996	43S 65E 23 SE, SW
307	WEST MARIPOSITE 123	AK106588730	AK AA 078250	Book 443, Page 186-188	2/18/1996	43S 65E 23 SE, SW
308	WEST MARIPOSITE 128	AK106588735	AK AA 078255	Book 443, Page 201-203	2/18/1996	43S 65E 24 NW, SW
309	WEST MARIPOSITE 129	AK106588736	AK AA 078256	Book 443, Page 204-206	2/18/1996	43S 65E 24 NW, SW
310	WEST MARIPOSITE 130	AK106588737	AK AA 078257	Book 443, Page 207-209	2/18/1996	43S 65E 23 NE; 24 NW, SW
311	WEST MARIPOSITE 131	AK106588738	AK AA 078258	Book 443, Page 210-212	2/18/1996	43S 65E 23 NE, SE; 24 SW
312	WEST MARIPOSITE 132	AK106588739	AK AA 078259	Book 443, Page 213-215	2/18/1996	43S 65E 23 SE, 24 SW
313	WEST MARIPOSITE 133	AK106588740	AK AA 078260	Book 443, Page 216-218	2/18/1996	43S 65E 23 SE
314	WEST MARIPOSITE 134	AK106588741	AK AA 078261	Book 443, Page 219-221	2/18/1996	43S 65E 23 SE
315	WEST MARIPOSITE 135	AK106588742	AK AA 078262	Book 443, Page 222-224	2/18/1996	43S 65E 23 SE
316	WEST MARIPOSITE 136	AK106596895	AK AA 078263	Book 443, Page 225-227	2/18/1996	43S 65E 23 SE, 26 NE
317	WEST MARIPOSITE 137	AK106596896	AK AA 078264	Book 443, Page 228-230	2/18/1996	43S 65E 23 SE, SW; 26 NE
318	WEST MARIPOSITE 138	AK106596897	AK AA 078265	Book 443, Page 231-233	2/18/1996	43S 65E 23 SW; 26 NE, NW
319	WEST MARIPOSITE 139	AK106596898	AK AA 078266	Book 443, Page 234-236	2/18/1996	43S 65E 24 NW, SE, SW
320	WEST MARIPOSITE 140	AK106596899	AK AA 078267	Book 443, Page 237-239	2/18/1996	43S 65E 24 NE, SW
321	WEST MARIPOSITE 141	AK106596900	AK AA 078268	Book 443, Page 240-242	2/18/1996	43S 65E 24 SW
322	WEST MARIPOSITE 142	AK106596901	AK AA 078269	Book 443, Page 243-245	2/18/1996	43S 65E 24 SW
323	WEST MARIPOSITE 143	AK106596902	AK AA 078270	Book 443, Page 246-248	2/18/1996	43S 65E 24 SW
324	WEST MARIPOSITE 144	AK106596903	AK AA 078271	Book 443, Page 249-251	2/18/1996	43S 65E 23 SE, 24 SW, 25 NW
325	WEST MARIPOSITE 145	AK106596904	AK AA 078272	Book 443, Page 252-254	2/18/1996	43S 65E 23 SE, 24 SW, 25 NW, 26 NE
326	WEST MARIPOSITE 146	AK106596905	AK AA 078273	Book 443, Page 255-257	2/18/1996	43S 65E 23 SE, 25 NW, 26 NE
327	WEST MARIPOSITE 147	AK106596906	AK AA 078274	Book 443, Page 258-260	2/18/1996	43S 65E 23 SE, 26 NE
328	WEST MARIPOSITE 148	AK106596907	AK AA 078275	Book 443, Page 261-263	2/18/1996	43S 65E 26 NE
329	WEST MARIPOSITE 149	AK106596908	AK AA 078276	Book 443, Page 264-266	2/18/1996	43S 65E 26 NE
330	WEST MARIPOSITE 150	AK106596909	AK AA 078277	Book 443, Page 267-269	2/18/1996	43S 65E 24 SW; 25 NE, NW
331	WEST MARIPOSITE 151	AK106596910	AK AA 078278	Book 443, Page 270-272	2/18/1996	43S 65E 24 SW, 25 NW
332	WEST MARIPOSITE 152	AK106596911	AK AA 078279	Book 443, Page 273-275	2/18/1996	43S 65E 24 SW, 25 NW
333	WEST MARIPOSITE 153	AK106596912	AK AA 078280	Book 443, Page 276-278	2/18/1996	43S 65E 25 NW
334	WEST MARIPOSITE 154	AK106596913	AK AA 078281	Book 443, Page 279-281	2/18/1996	43S 65E 25 NW, 26 NE
335	WEST MARIPOSITE 155	AK106596914	AK AA 078282	Book 443, Page 282-284	2/18/1996	43S 65E 25 NW, 26 NE
336	WEST MARIPOSITE 156	AK106596915	AK AA 078283	Book 443, Page 285-287	2/18/1996	43S 65E 25 NW, SW; 26 NE, SE
337	WEST MARIPOSITE 159	AK106596918	AK AA 078286	Book 443, Page 294-296	2/18/1996	43S 65E 25 NE, NW
338	WEST MARIPOSITE 160	AK106596919	AK AA 078287	Book 443, Page 297-299	2/18/1996	43S 65E 25 NE, NW
339	WEST MARIPOSITE 161	AK106596920	AK AA 078288	Book 443, Page 300-302	2/18/1996	43S 65E 25 NE, NW
340	WEST MARIPOSITE 162	AK106596921	AK AA 078289	Book 443, Page 303-305	2/18/1996	43S 65E 25 NW, SW
341	WEST MARIPOSITE 163	AK106596922	AK AA 078290	Book 443, Page 306-308	2/18/1996	43S 65E 25 NW, SW
342	WEST MARIPOSITE 164	AK106596923	AK AA 078291	Book 443, Page 309-311	2/18/1996	43S 65E 25 NW, SW
343	WEST MARIPOSITE 165	AK106596924	AK AA 078292	Book 443, Page 312-314	2/18/1996	43S 65E 25 NW, SW; 26 SE

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344	WEST MARIPOSITE 168	AK106596927	AK AA 078295	Book 443, Page 321-323	2/18/1996	43S 65E 24 NE; 43S 66E 19 NW, SW
345	WEST MARIPOSITE 169	AK106596928	AK AA 078296	Book 443, Page 324-326	2/18/1996	43S 65E 24 SE, SW
346	WEST MARIPOSITE 170	AK106596929	AK AA 078297	Book 443, Page 327-329	2/18/1996	43S 65E 24 SE
347	WEST MARIPOSITE 171	AK106596930	AK AA 078298	Book 443, Page 330-332	2/18/1996	43S 65E 13 SW, 23 NE, 24 NW
348	WEST FOWLER 559	AK106596931	AK AA 078299	Book 443, Page 399-401	2/19/1996	43S 65E 14 NW, 15 NE
349	WEST FOWLER 560	AK106596932	AK AA 078300	Book 443, Page 402-404	2/18/1996	43S 65E 14 NW, 15 NE
350	WEST FOWLER 561	AK106596933	AK AA 078301	Book 443, Page 405-407	2/18/1996	43S 65E 14 NW, 15 NE
351	WEST FOWLER 659	AK106596935	AK AA 078303	Book 443, Page 411-413	2/18/1996	43S 65E 14 NW, SW
352	WEST FOWLER 660	AK106596936	AK AA 078304	Book 443, Page 414-416	2/18/1996	43S 65E 14 NW, SW
353	WEST FOWLER 661	AK106596937	AK AA 078305	Book 443, Page 417-419	2/18/1996	43S 65E 14 NW, SW; 15 NE
354	WEST FOWLER 662	AK106596938	AK AA 078306	Book 443, Page 420-422	2/18/1996	43S 65E 14 SW, 15 SE
355	WEST FOWLER 663	AK106596939	AK AA 078307	Book 443, Page 423-425	2/18/1996	43S 65E 14 SW, 15 SE
356	WEST FOWLER 664	AK106596940	AK AA 078308	Book 443, Page 426-428	2/18/1996	43S 65E 14 SW, 15 SE
357	WEST FOWLER 759	AK106596941	AK AA 078309	Book 443, Page 429-431	2/18/1996	43S 65E 14 SE, SW
358	WEST FOWLER 760	AK106596942	AK AA 078310	Book 443, Page 432-434	2/18/1996	43S 65E 14 SW
359	WEST FOWLER 761	AK106596943	AK AA 078311	Book 443, Page 435-437	2/18/1996	43S 65E 14 SW
360	WEST FOWLER 762	AK106596944	AK AA 078312	Book 443, Page 438-440	2/18/1996	43S 65E 14 SW
361	WEST FOWLER 763	AK106596945	AK AA 078313	Book 443, Page 444-446	2/18/1996	43S 65E 14 SW, 23 NW
362	WEST FOWLER 764	AK106596946	AK AA 078314	Book 443, Page 447-449	2/18/1996	43S 65E 14 SW, 15 SE, 23 NW
363	WEST FOWLER 765	AK106596947	AK AA 078315	Book 443, Page 450-452	2/18/1996	43S 65E 14 SW, 15 SE, 22 NE, 23 NW
364	WEST FOWLER 766	AK106596948	AK AA 078316	Book 443, Page 453-455	2/18/1996	43S 65E 15 SE, 22 NE, 23 NW
365	WEST FOWLER 767	AK106596949	AK AA 078317	Book 443, Page 456-458	2/18/1996	43S 65E 22 NE
366	WEST FOWLER 859	AK106596951	AK AA 078319	Book 443, Page 462-464	2/18/1996	43S 65E 14 SE
367	WEST FOWLER 860	AK106596952	AK AA 078320	Book 443, Page 465-467	2/18/1996	43S 65E 14 SE, SW; 23 NE
368	WEST FOWLER 861	AK106596953	AK AA 078321	Book 443, Page 468-470	2/18/1996	43S 65E 14 SE, SW; 23 NE, NW
369	WEST FOWLER 862	AK106596954	AK AA 078322	Book 443, Page 471-473	2/18/1996	43S 65E 14 SW; 23 NE, NW
370	WEST FOWLER 863	AK106596955	AK AA 078323	Book 443, Page 474-476	2/18/1996	43S 65E 14 SW, 23 NW
371	WEST FOWLER 864	AK106596956	AK AA 078324	Book 443, Page 477-479	2/18/1996	43S 65E 23 NW
372	WEST FOWLER 865	AK106596957	AK AA 078325	Book 443, Page 480-482	2/18/1996	43S 65E 23 NW
373	WEST FOWLER 959	AK106596961	AK AA 078329	Book 443, Page 492-494	2/18/1996	43S 65E 14 SE, 23 NE
374	WEST FOWLER 960	AK106596962	AK AA 078330	Book 443, Page 495-497	2/18/1996	43S 65E 14 SE, 23 NE
375	WEST FOWLER 961	AK106596963	AK AA 078331	Book 443, Page 498-500	2/18/1996	43S 65E 23 NE
376	WEST FOWLER 962	AK106596964	AK AA 078332	Book 443, Page 501-503	2/18/1996	43S 65E 23 NE, NW
377	WEST FOWLER 963	AK106596965	AK AA 078333	Book 443, Page 504-506	2/18/1996	43S 65E 23 NE, NW
378	WEST FOWLER 964	AK106596966	AK AA 078334	Book 443, Page 507-509	2/18/1996	43S 65E 23 NE, NW, SW
379	WEST FOWLER 965	AK106596967	AK AA 078335	Book 443, Page 510-512	2/18/1996	43S 65E 23 NW, SW
380	WEST FOWLER 966	AK106596968	AK AA 078336	Book 443, Page 513-515	2/18/1996	43S 65E 23 NW, SW
381	NORTH FOWLER 41	AK106596972	AK AA 078341	Book 442, Page 882-884	2/17/1996	43S 65E 03 SE
382	NORTH FOWLER 141	AK106596973	AK AA 078342	Book 442, Page 885-887	2/17/1996	43S 65E 02 NW, SW
383	NORTH FOWLER 142	AK106596974	AK AA 078343	Book 442, Page 888-890	2/17/1996	43S 65E 02 SW, 03 SE
384	NORTH FOWLER 143	AK106596975	AK AA 078344	Book 442, Page 891-893	2/17/1996	43S 65E 02 SW, 03 SE
385	NORTH FOWLER 144	AK106596976	AK AA 078345	Book 442, Page 894-896	2/17/1996	43S 65E 02 SW, 03 SE, 10 NE
386	NORTH FOWLER 226	AK106596982	AK AA 078351	Book 442, Page 912-914	2/17/1996	42S 65E 36 SE, SW
387	NORTH FOWLER 227	AK106596983	AK AA 078352	Book 442, Page 915-917	2/17/1996	42S 65E 36 SE, SW; 43S 65E 01 NE, NW
388	NORTH FOWLER 228	AK106596984	AK AA 078353	Book 442, Page 918-920	2/17/1996	42S 65E 36 SW; 43S 65E 01 NW
389	NORTH FOWLER 229	AK106596985	AK AA 078354	Book 442, Page 921-923	2/17/1996	42S 65E 36 SW; 43S 65E 01 NW
390	NORTH FOWLER 230	AK106596986	AK AA 078355	Book 442, Page 924-926	2/17/1996	43S 65E 01 NW
391	NORTH FOWLER 231	AK106596987	AK AA 078356	Book 442, Page 927-929	2/17/1996	43S 65E 01 NW, 02 NE
392	NORTH FOWLER 232	AK106596988	AK AA 078357	Book 442, Page 930-932	2/17/1996	43S 65E 01 NW, 02 NE
393	NORTH FOWLER 233	AK106596989	AK AA 078358	Book 442, Page 933-935	2/17/1996	43S 65E 01 NW, 02 NE
394	NORTH FOWLER 234	AK106596990	AK AA 078359	Book 442, Page 936-938	2/17/1996	43S 65E 02 NE, SE
395	NORTH FOWLER 235	AK106596991	AK AA 078360	Book 442, Page 939-941	2/17/1996	43S 65E 02 NE, SE
396	NORTH FOWLER 236	AK106596992	AK AA 078361	Book 442, Page 942-944	2/17/1996	43S 65E 02 NE, SE
397	NORTH FOWLER 237	AK106596993	AK AA 078362	Book 442, Page 945-947	2/17/1996	43S 65E 02 NE, SW
398	NORTH FOWLER 238	AK106596994	AK AA 078363	Book 442, Page 948-950	2/17/1996	43S 65E 02 SE, SW
399	NORTH FOWLER 239	AK106596995	AK AA 078364	Book 442, Page 951-953	2/17/1996	43S 65E 02 SE, SW
400	NORTH FOWLER 240	AK106596996	AK AA 078365	Book 442, Page 954-956	2/17/1996	43S 65E 02 SW
401	NORTH FOWLER 241	AK106596997	AK AA 078366	Book 442, Page 957-959	2/17/1996	43S 65E 02 SW, 11 NW
402	NORTH FOWLER 242	AK106596998	AK AA 078367	Book 442, Page 960-962	2/17/1996	43S 65E 02 SW, 11 NW
403	NORTH FOWLER 243	AK106596999	AK AA 078368	Book 442, Page 963-965	2/17/1996	43S 65E 02 SW, 11 NW
404	NORTH FOWLER 244	AK106597000	AK AA 078369	Book 442, Page 966-968	2/17/1996	43S 65E 02 SW, 10 NE, 11 NW
405	NORTH FOWLER 245	AK106597001	AK AA 078370	Book 442, Page 969-971	2/17/1996	43S 65E 10 NE, 11 NW
406	NORTH FOWLER 246	AK106597002	AK AA 078371	Book 442, Page 972-974	2/17/1996	43S 65E 10 NE, 11 NW
407	NORTH FOWLER 336	AK106597008	AK AA 078377	Book 442, Page 990-992	2/17/1996	42S 65E 36 SE; 43S 65E 01 NE
408	NORTH FOWLER 337	AK106597009	AK AA 078378	Book 442, Page 993-995	2/17/1996	43S 65E 01 NE, NW
409	NORTH FOWLER 338	AK106597010	AK AA 078379	Book 442, Page 996-998	2/17/1996	43S 65E 01 NE, NW
410	NORTH FOWLER 339	AK106597011	AK AA 078380	Book 0442/0443, Page	2/17/1996	43S 65E 01 NE, NW
411	NORTH FOWLER 340	AK106597012	AK AA 078381	Book 443, Page 003-005	2/17/1996	43S 65E 01 NW
412	NORTH FOWLER 341	AK106597013	AK AA 078382	Book 443, Page 006-008	2/17/1996	43S 65E 01 NW, SW
413	NORTH FOWLER 342	AK106597014	AK AA 078383	Book 443, Page 009-011	2/17/1996	43S 65E 01 NW, SW

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414	NORTH FOWLER 343	AK106597015	AK AA 078384	Book 443, Page 012-014	2/17/1996	43S 65E 01 NW, SW; 02 NE
415	NORTH FOWLER 344	AK106597016	AK AA 078385	Book 443, Page 015-017	2/17/1996	43S 65E 01 SW, 02 SE
416	NORTH FOWLER 345	AK106597017	AK AA 078386	Book 443, Page 018-020	2/17/1996	43S 65E 01 SW, 02 SE
417	NORTH FOWLER 346	AK106597018	AK AA 078387	Book 443, Page 021-023	2/17/1996	43S 65E 02 SE
418	NORTH FOWLER 347	AK106597019	AK AA 078388	Book 443, Page 024-026	2/17/1996	43S 65E 02 SE
419	NORTH FOWLER 348	AK106597020	AK AA 078389	Book 443, Page 027-029	2/17/1996	43S 65E 02 SE, 11 NE
420	NORTH FOWLER 349	AK106597021	AK AA 078390	Book 443, Page 030-032	2/17/1996	43S 65E 02 SE, 11 NE
421	NORTH FOWLER 350	AK106597022	AK AA 078391	Book 443, Page 033-035	2/17/1996	43S 65E 02 NW, SE; 11 NE, NW
422	NORTH FOWLER 351	AK106597023	AK AA 078392	Book 443, Page 036-038	2/17/1996	43S 65E 02 SW; 11 NE, NW
423	NORTH FOWLER 352	AK106597024	AK AA 078393	Book 443, Page 039-041	2/17/1996	43S 65E 11 NE, NW
424	NORTH FOWLER 353	AK106597025	AK AA 078394	Book 443, Page 042-044	2/17/1996	43S 65E 11 NW
425	NORTH FOWLER 354	AK106597026	AK AA 078395	Book 443, Page 045-047	2/17/1996	43S 65E 11 NW
426	NORTH FOWLER 355	AK106597027	AK AA 078396	Book 443, Page 048-050	2/17/1996	43S 65E 11 NW, SW
427	NORTH FOWLER 356	AK106597028	AK AA 078397	Book 443, Page 051-053	2/17/1996	43S 65E 10 NE; 11 NW, SW
428	NORTH FOWLER 357	AK106597029	AK AA 078398	Book 443, Page 054-056	2/17/1996	43S 65E 10 NE, SE; 11 NW, SW
429	NORTH FOWLER 358	AK106597030	AK AA 078399	Book 443, Page 057-059	2/17/1996	43S 65E 10 NE, SE; 11 SW
430	NORTH FOWLER 436	AK106597036	AK AA 078405	Book 443, Page 075-077	2/17/1996	43S 65E 01 NE
431	NORTH FOWLER 437	AK106597037	AK AA 078406	Book 443, Page 078-080	2/17/1996	43S 65E 01 NE
432	NORTH FOWLER 438	AK106597038	AK AA 078407	Book 443, Page 081-083	2/17/1996	43S 65E 01 NE
433	NORTH FOWLER 439	AK106597039	AK AA 078408	Book 443, Page 084-086	2/17/1996	43S 65E 01 NE, NW, SE
434	NORTH FOWLER 440	AK106597040	AK AA 078409	Book 443, Page 087-089	2/17/1996	43S 65E 01 NE, NW, SE, SW
435	NORTH FOWLER 441	AK106597041	AK AA 078410	Book 443, Page 090-092	2/17/1996	43S 65E 01 NW, SE, SW
436	NORTH FOWLER 442	AK106597042	AK AA 078411	Book 443, Page 093-095	2/17/1996	43S 65E 01 SW
437	NORTH FOWLER 443	AK106597043	AK AA 078412	Book 443, Page 096-098	2/17/1996	43S 65E 01 SW
438	NORTH FOWLER 444	AK106597044	AK AA 078413	Book 443, Page 099-101	2/17/1996	43S 65E 01 SW
439	NORTH FOWLER 445	AK106597045	AK AA 078414	Book 443, Page 102-104	2/17/1996	43S 65E 01 SW, 12 NW
440	NORTH FOWLER 446	AK106597046	AK AA 078415	Book 443, Page 105-107	2/17/1996	43S 65E 01 SW, 02 SE, 12 NW
441	NORTH FOWLER 447	AK106597047	AK AA 078416	Book 443, Page 108-110	2/17/1996	43S 65E 02 SE, 11 NE, 12 NW
442	NORTH FOWLER 448	AK106597048	AK AA 078417	Book 443, Page 111-113	2/17/1996	43S 65E 02 SE, 11 NE, 12 NW
443	NORTH FOWLER 449	AK106597049	AK AA 078418	Book 443, Page 114-116	2/17/1996	43S 65E 11 NE
444	NORTH FOWLER 450	AK106597050	AK AA 078419	Book 443, Page 117-119	2/17/1996	43S 65E 11 NE
445	NORTH FOWLER 451	AK106597051	AK AA 078420	Book 443, Page 120-122	2/17/1996	43S 65E 11 NE
446	NORTH FOWLER 452	AK106597052	AK AA 078421	Book 443, Page 123-125	2/17/1996	43S 65E 11 NE, NW, SE
447	NORTH FOWLER 453	AK106597053	AK AA 078422	Book 443, Page 126-128	2/17/1996	43S 65E 11 NE, NW, SE, SW
448	NORTH FOWLER 454	AK106597054	AK AA 078423	Book 443, Page 129-131	2/17/1996	43S 65E 11 NW, SE, SW
449	NORTH FOWLER 455	AK106597055	AK AA 078424	Book 443, Page 132-134	2/17/1996	43S 65E 11 NW, SW
450	NORTH FOWLER 456	AK106597056	AK AA 078425	Book 443, Page 135-137	2/17/1996	43S 65E 11 SW
451	NORTH FOWLER 457	AK106597057	AK AA 078426	Book 443, Page 138-140	2/17/1996	43S 65E 11 SW
452	NORTH FOWLER 458	AK106597058	AK AA 078427	Book 443, Page 141-143	2/17/1996	43S 65E 11 SW
453	NORTH FOWLER 459	AK106597059	AK AA 078428	Book 443, Page 144-146	2/17/1996	43S 65E 10 SE, 11 SW
454	NORTH FOWLER 460	AK106597060	AK AA 078429	Book 443, Page 147-149	2/17/1996	43S 65E 10 SE, 11 SW, 14 NW, 15 NE
455	NORTH FOWLER 461	AK106597061	AK AA 078430	Book 443, Page 150-152	2/17/1996	43S 65E 10 SE, 14 NW, 15 NE
456	East Ridge 1011	AK106555528	AK AA 091926	-	9/16/2009	43S 65E 13 NE, 43S 66E 18 NW
457	East Ridge 1012	AK106555529	AK AA 091927	-	9/16/2009	43S 65E 13 NE, 43S 66E 18 NW
458	East Ridge 1013	AK106555530	AK AA 091928	-	9/16/2009	43S 65E 13 NE
459	East Ridge 1014	AK106555531	AK AA 091929	-	9/16/2009	43S 65E 13 NE
460	East Ridge 1015	AK106555532	AK AA 091930	-	9/16/2009	43S 65E 13 NE
461	East Ridge 1111	AK106555533	AK AA 091931	-	9/19/2009	43S 65E 13 NE
462	East Ridge 1112	AK106555534	AK AA 091932	-	9/19/2009	43S 65E 13 SW, 43S 66E 18 NW
463	East Ridge 1113	AK106555535	AK AA 091933	-	9/19/2009	43S 65E 13 SE, 43S 66E 18 SW
464	East Ridge 1114	AK106555536	AK AA 091934	-	9/19/2009	43S 65E 13 SE, 43S 66E 18 SW
465	East Ridge 1115	AK106555537	AK AA 091935	-	9/19/2009	43S 65E 13 SE; 43S 66E 18 SW
466	East Ridge 1210	AK106555538	AK AA 091936	-	9/17/2009	43S 66E 18 SW
467	East Ridge 1211	AK106555539	AK AA 091937	-	9/17/2009	43S 66E 18 SW
468	East Ridge 1212	AK106555540	AK AA 091938	-	9/17/2009	43S 66E 18 SW
469	East Ridge 1213	AK106555541	AK AA 091939	-	9/17/2009	43S 66E 18 SW, 19 NW
470	East Ridge 1214	AK106555542	AK AA 091940	-	9/17/2009	43S 66E 18 SW, 19 NW
471	East Ridge 1215	AK106555543	AK AA 091941	-	9/19/2009	43S 65E 13 SE, 24 NE; 43S 66E 18 SW, 19 NW
472	East Ridge 1310	AK106555544	AK AA 091942	-	9/17/2009	43S 66E 18 SE, 19 NE
473	East Ridge 1311	AK106555545	AK AA 091943	-	9/17/2009	43S 66E 18 SE, 19 NE
474	East Ridge 1312	AK106555546	AK AA 091944	-	9/17/2009	43S 66E 18 SW, 19 NW
475	East Ridge 1313	AK106555547	AK AA 091945	-	9/17/2009	43S 66E 18 SW, 19 NW
476	East Ridge 1314	AK106555548	AK AA 091946	-	9/17/2009	43S 66E 19 NW
477	East Ridge 1315	AK106555549	AK AA 091947	-	9/17/2009	43S 66E 19 NW
478	East Ridge 1408	AK106555550	AK AA 091948	-	9/18/2009	43S 66E 17 SW, 18 SE, 19 NE, 20 NW
479	East Ridge 1409	AK106555551	AK AA 091949	-	9/18/2009	43S 66E 17 SW, 18 SE, 19 NE, 20 NW
480	East Ridge 1410	AK106555552	AK AA 091950	-	9/18/2009	43S 66E 18 SE, 19 NE
481	East Ridge 1411	AK106555553	AK AA 091951	-	9/18/2009	43S 66E 19 NE
482	East Ridge 1412	AK106555554	AK AA 091952	-	9/18/2009	43S 66E 19 NE
483	East Ridge 1413	AK106555555	AK AA 091953	-	9/18/2009	43S 66E 18 NE

	Claim Name	BLM Serial Number	Legacy Serial	Recording Information	Date Of	Township Range Section Quadrant
484	East Ridge 1414	AK106555556	AK AA 091954	-	9/18/2009	43S 66E 19 NW
485	East Ridge 1415	AK106555557	AK AA 091955	-	9/18/2009	43S 66E 19 NW
486	East Ridge 1416	AK106555558	AK AA 091956	-	9/18/2009	43S 66E 19 NW
487	East Ridge 1417	AK106555559	AK AA 091957	-	9/18/2009	43S 66E 19 NW
488	East Ridge 1510	AK106555560	AK AA 091958	-	9/17/2009	43S 66E 19 NE, 20 NW
489	East Ridge 1511	AK106555561	AK AA 091959	-	9/17/2009	43S 66E 19 NE, 20 NW
490	East Ridge 1512	AK106555562	AK AA 091960	-	9/17/2009	43S 66E 19 NE
491	East Ridge 1513	AK106555563	AK AA 091961	-	9/17/2009	43S 66E 19 NE
492	East Ridge 1514	AK106555564	AK AA 091962	-	9/17/2009	43S 66E 18 NE
493	East Ridge 1515	AK106555565	AK AA 091963	-	9/17/2009	43S 66E 19 NE
494	East Ridge 1611	AK106555566	AK AA 091964	-	9/17/2009	43S 66E 19 SE, 20 NW
495	East Ridge 1612	AK106555567	AK AA 091965	-	9/17/2009	43S 66E 19 SE, 20 SW
496	East Ridge 1613	AK106555568	AK AA 091966	-	9/17/2009	43S 66E 19 SE, 20 SW
497	East Ridge 1614	AK106555569	AK AA 091967	-	9/17/2009	43S 66E 19 SE
498	East Ridge 1615	AK106555570	AK AA 091968	-	9/17/2009	43S 66E 19 SE

Claim Count:

498

Table 1: Summary – Patented Claims and Mill Sites

Owner: Hecla Greens Creek Mining Company, a Delaware Corporation

Claim Names	Number	BLM Serial No. or Survey No. or ADL No.	Type	Acreage	Township Range Section Quadrant
<i>Patented Claims</i>					
Big Sore #s 902, 903, 904, 905, 906, 1006, 1007 and Big Sore #1305	8	Mineral patent Surveys: MS2402, MS2515	Patented surface and subsurface ("fee simple") lode mining claims	155.366 (62.874 ha)	Sects 4, 8, 9 and 10, T44S, R6 E, Copper River Meridian.
Big Sore #s 1002, 1003, 1004, 1005, 1106, 1107; Big Sore #1105, 1207; and Big Sore #1304	9	Mineral Patent Surveys: MS2402, MS2515, MS2516	Patented lode	171.825 (69.535 ha)	Sects 4, 8, 9 and 10, T44S, R66E, Copper River Meridian.
Mammoth Claims #s 2, 4, 5, and 6 Patent #604724	4	Mineral Patent Surveys: MS1032	Patented lode claim	82.284 (33.299 ha)	NE1/4 Sec 31 and NW1/4 Sec 32, T43S, R66E, Copper River Meridian.
<i>Patented Millsite</i>					
Young No. 1 millsite	1	Mineral Patent Survey: MS2514	Patented millsite, patented (surface) in Dec. 1992	0.6151 (0.2489 ha)	Sects 31 and 32, T43S, R66E, Copper River Meridian.

Table 2: Summary – Land Exchange and Other Fee Properties

Owner: Hecla Greens Creek Mining Company, a Delaware Corporation

Property Name	Number	BLM Serial No. or Survey No. or ADL No.	Type	Acreage	Township Range Section
Exchange lands (Greens Creek Land Exchange Act of 1995)	N/A	Pat. No. 50-98-0434; U.S. Survey No. 11840, Alaska	Sub-surface mineral estate, surface considered AINM non-wilderness for mining development purposes	7,301.48 acres (2,954.80 ha)	SW1/4 Sec 25, SE1/2 Sec 26, E1/2 Sec 35, 36, T43S, R65E; Sec 30, S1/2 Sec 31, 32, SW1/4 Sec 33, T43S, R66E; Secs 1, 2, T44S, R65E; Secs 3-6, NE1/4 NE1/4 Sec 7, Secs 8-10, SW1/4 Sec 11, T44S, R 66E; Secs. 13 17, T44S, R66E, Copper River Meridian.
Hawk Inlet Cannery site	1	U.S. Survey No. 793		16.83 acres (6.81 ha)	NE1/4 SE1/4 Sec 22 T44S, R65E, Copper River Meridian.
Hawk Inlet Cannery site tidelands	1	Alaska Tidelands Survey No. 57 / Serial No. 63-1523		21.019 acres (8.5 ha)	W1/2 NW1/4 SE1/4 Sec 22, T44S, R65E, Copper River Meridian.

Table 3: Summary – Claims Holding Obligations

Owner: Hecita Greens Creek Mining Company, a Delaware Corporation

Names	Number	Type	Acreage	Holding Costs	Royalties	Comments
Big Sore #'s 902, 903, 904, 905, 906, 1006, 1007 (MS 2402) and Big Sore #1305 (MS 2515)	8	Patented surface and sub-surface ("fee simple") Federal lode mining claims	155.366 (62.874 ha)	Property taxes	None	Within Exchange Lands; represents so-called "perfected" claims in the immediate mine area (core claims with valid discoveries as of 12/1/78)
Big Sore #'s 1002, 1003, 1004, 1005, 1106, 1107 (MS 2402); Big Sore #1105, 1207 (MS 2516), and Big Sore #1304 (MS 2515)	9	Patented sub-surface Federal lode mining claims	171.825 (69.535 ha)	Property taxes	None	Within Exchange Lands; represent so-called "unperfected" claims in the immediate mine area (core claims with valid discoveries made after 12/1/78)
Young No. 1 Millsite	1	Federal millsite claim, fully patented (surface) in Dec. 1992	0.6151 (0.2489 ha)	Property taxes	None	Outside of AINM within standard Tongass National Forest lands; claim provides a site for Young Bay dock and parking facility
Big Sore 1321-1324, 1421-1424, 1521-1524, 1623-1627, 1723-1728, 1824-1827	27	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 540 acres (219 ha); valid acreage is much less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	Mariposite Ridge area (abutting the Mammoth claims) within Tongass National Forest lands but overlapping into AINM; a portion of this claim block is invalid
Mariposite 1-77, 79-87, 100-114	101	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 2,020 acres (817 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	Multiple groups staked in 80's; on Tongass Nat'l Forest lands; portions may be invalid due to overlaps, especially with LI Sore block
West Mariposite 115-123, 128-156, 159-165, 168-171	49	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 980 acres (397 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	Staked in 1996; on Tongass Nat'l Forest land
LI Sore 41-48	8	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 160 acres (65 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	Staked in 1996; on Tongass Nat'l Forest land; borders LI Sore block to W, Fowler block to N, Young Bay Experimental Forest to E
Fowler 543-558, 643-658, 743-758, 843-858, 943-958, 1043-1047, 1143-1147	90	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 1,800 acres (728 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	Staked in 1985; on Tongass Nat'l Forest land; bordered by West Fowler, North Fowler, & East Fowler; LI Sore and Mariposite blocks to S
North Fowler 41, 141-144, 226-246, 250-251, 336-358, 363, 436-461	75	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 1,660 acres (672 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	93 claims staked in 1996; on Tongass Nat'l Forest land; 10 claims were declared Null and Void Ab Initio (and portions of 12 others) by BLM in February 1997 (State Selected Land)
West Fowler 559-561, 659-664, 759-767, 859-865, 959-966	33	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 660 acres (267 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	Staked in 1996; on Tongass Nat'l Forest land; 7 claims abandoned in April 1997 that overlapped new mill sites claims, 1 declared Null and Void Ab Initio (and portions of 10 others) by BLM in February 1997 (State Selected Land)
East Fowler 538-542, 641-642, 741-742, 841-842, 941-942, 1042	14	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 280 acres (113 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	41 claims staked in 1996; on Tongass Nat'l Forest land
Big Sore Mill Site Nos. 798, 802-803, 899-902, 904-907, 996, 1001-1010, 1096-1097, 1103-1108, 1202-1205, 1505-1508, 1509-1511, 1514, 1516-1517, 1610-1614, 1710-1718	58	Unpatented Federal mill site mining claims	Claimed acreage, @ 5 acres/claim, is 290 acres (117 ha)	\$200/year/claim BLM rental fees, plus filing/recording fees	None	25 were re-staked in Fall 1993; on Tongass Nat'l Forest land; covers main tailings area; 33 sites to the north and east were re-staked in May 2002 (originally staked in Fall 1996)
HIP 010, 020, 030, 040, and 050	5	Alaska State Prospecting Sites	Claimed acreage is 800 acres (324 ha) (1/4 section, 160 acres, per pros. site); "valid" acreage is roughly 1/2 that due to shoreline	No rentals, no fees, no filings required until land tentatively approved; costs thereafter same as state tideland claims	3% net income production royalty	Staked in Feb 1996; on State selected lands along E side of Hawk Inlet; status in limbo; no development allowed until state selections are tentatively approved (has not happened as of Sept, 2005)
Hawk Inlet Cannery site	1	Fee simple land (US Survey 783)	16.83 acres (6.81 ha)	Property taxes	NA	Acquired from Bristol Resources, Inc.
Hawk Inlet Cannery site tidelands	1	Alaska Tidelands Survey No. 57	21.019 acres (8.50 ha)	Property taxes	NA	Acquired from Bristol Resources, Inc.
Exchange Lands (Greens Creek Land Exchange Act of 1996)	NA	Sub-surface mineral estate, surface remains AINM non-wilderness	7,301 acres (2,955 ha)	None	3% net island receipts (NIR) production royalty; 3/4% NIR when NIR value is less than \$120/ton ore	Completed in 1998; no surface mining allowed; 100-year expiration of conveyance
East Ridge #'s 1011-1015, 1111-1115, 1210-1215, 1310-1315, 1408-1417, 1510-1515, 1611-1615	43	Unpatented Federal lode mining claims	Claimed acreage, @ 20 acres/claim, is 860 acres (348 ha); because of overlaps actual valid acreage will be less	\$200/year/claim BLM rental fees, plus filing/recording fees	None	
TOTAL: The total unpatented and patented claims and mill sites, state prospecting sites and tideland claims; including Exch. Lands, approximately 16,492 acres (6,612 ha) encompassed			~16,410 acres (6,530 ha) total			* Excluding Forest Service leases and State tideland leases (approx. 113 acres / 46 ha total) ** AINM = Admiralty Island National Monument



GPO Appendix 14
Attachment B
Basis of Cost Estimate

2026

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1. INTRODUCTION AND SCOPE OF REPORT

Hecla Greens Creek Mining Company (HGCMC) has prepared an estimate of the costs to be incurred should the Greens Creek Mine (site) be closed under a default scenario. This report outlines the methods and assumptions used to prepare this closure cost estimate. The closure costs addressed in this report include direct and indirect costs for physical closure and long-term water treatment, monitoring and maintenance over a 100-year period of closure and post-closure. The closure period (Year 0 to Year 3) includes a holding year where only care and maintenance occurs and three years of active reclamation. The post-closure period (Year 4 to Year 100) includes long term water treatment and care, maintenance and monitoring. The 100-year term of this estimate is a proxy for in perpetuity. The costs are provided in un-discounted form and include indirect costs such as contingency, contractor overhead and profit, and agency administration.

2. BACKGROUND AND BRIEF

This cost estimate (2026) was prepared by HGCMC and is based upon the approved 2019 cost estimate associated with Waste Management Permit No. 2019DB0003.

This estimate also incorporates updates to the operating mine as described in the Reclamation and Closure Plan, GPO-14 (of which this report is an attachment). HGCMC reviewed and updated the Standardized Reclamation Cost Estimate (SRCE), to prepare the estimate. The SRCE provides a standardized approach to common closure activities encountered at mining operations. The scope of the update included the following:

- updated unit rates for labor, equipment and materials
- updated closure cost estimate including the closure of the mine as described in the Reclamation and Closure Plan
- reviewed this report outlining the methodologies used to prepare the cost estimate

3. PURPOSE OF THE REPORT

The purpose of this report is to describe the methodologies and data sources used to complete the closure cost estimate. This closure cost estimate is being submitted to the U.S. Forest Service (USFS) as required under 36 CFR 228.1 et. seq. and 36 CFR 228A (Training Guide for Reclamation Bond Estimation and Administration 2004). Concurrently, the cost estimate is being submitted to the Alaska Departments of Natural Resources, Division of Mining (ADNR) and Environmental Conservation, (ADEC) in accordance with AS 27.19, 11 AAC 97, 11 AAC 93, AS 46.03.100, and 18 AAC 60.265.

4. METHODOLOGY

4.1. Introduction

The closure cost estimate was prepared using the SRCE model version 1.4.1 build 16. The SRCE was originally developed for the State of Nevada to provide a standardized approach to calculating bond costs for closure. Version 1.4 was developed using the Nevada model as a basis but was modified to be more generic and applicable for use in other jurisdictions and to include the option to use metric inputs.

The purpose of the SRCE is to provide a systematic approach to the development of a closure cost with modules included for the most common closure elements encountered at mining operations. The SRCE does not include closure tasks that are not commonly found at mining operations and provides blank worksheets for the development of custom calculations which can be linked into the model.

The model inputs required are the physical dimensions of the various facilities and calculations are based upon first principles. These calculations and assumptions are demonstrated on each worksheet with diagrams and examples of the calculations performed by the model.

Equipment used in the model is standardized upon Caterpillar because they have the most extensive line of equipment and the most comprehensive technical specifications and productivities available. Equipment productivities are derived from the Caterpillar Performance Handbook (2004). Productivity for other types of equipment is derived from technical specifications where available or on field experience at Nevada mine closure sites.

Crews for various tasks are derived from the RS Means Heavy Construction Data. Crew productivities are also derived from RS Means and used to calculate project specific unit rates utilizing the labor, equipment and material rates as defined for the project.

4.2. Data Requirements

Data required for SRCE consists of project data and cost data. Project data are dimensions, areas, distances, etc., that are specific to the project facilities. For this project, data consisted of dimensions of the roads, tailings facility, and buildings. A discussion is provided below under the relevant headings.

4.2.1. Project Data

Project data is input into the spreadsheet under tabs with the following headings:

- 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
- Miscellaneous Costs
- Monitoring
- Construction Management
- Solution Management
- Closure Planning
- General & Administration
- Human Resources
- Other User

Custom calculations are prepared using the “User Sheets” in the back of the model. Wherever possible these calculations are linked back to the model such that the calculations are updated whenever unit rates are updated. Cost totals from the User Sheets are linked into the Other User worksheet.

4.2.2. Cost Data

The SRCE utilizes cost data which is input into a separate file (“Cost Data File”) where the user can define up to 15 different cost bases. Once loaded into the SRCE the cost bases can be selected by the user to quickly switch between cost bases. The data input in the Cost Data File include the following:

- labor rates
- equipment rates
- material costs
- miscellaneous unit costs

Some costs were derived from previous estimates provided by contractors or from other sources. In these cases, the costs were updated to reflect inflation using the annual Consumer Price Index for All Urban Consumers (CPI-U). This inflation rates (included in User Sheet 1) are only used to update costs from previous estimates. Inflation adjustment for the five-year term of this Plan will be determined prior to the renewal of the permit. Included on User Sheet 20 is a bond estimate calculation modeled after the calculation used for WMP No. 2019DB0003. It is only an estimate and is subject to change pending approval of this Plan, however it allows for direct comparison to the current permit.

4.2.3. Model Results

The model results are reflected in the Cost Summary, Cost Schedule, and Reclamation Quantities sheets of the SRCE. The cost summary sheet provides a breakdown of inputs by labor, equipment, and material categories per the headings below to provide the total direct costs per heading:

- A. Earthwork/Recontouring
- B. Revegetation/Stabilization
- C. Detoxification/Water Treatment/Disposal of Wastes
- D. Structure, Equipment and Facility Removal, and Misc.
- E. Monitoring

- F. Construction Management & Support
- G. Closure Planning, G&A, Human Resources

These headings and their respective items' costs are furthermore reflected in the Cost Schedule sheet where scheduling by year can be carried out manually.

The Reclamation Quantities sheet sums total earthworks costs and total earthworks amounts (volumes and areas). These data are then used to calculate project-specific unit costs. This sheet can also be used to easily link calculations to the rest of the SRCE where sums of earthworks-related quantities are utilized.

5. DATA INPUT

This section provides a discussion of the particular data input into the model to calculate a closure cost. Much of the data for SRCE model came from the previous bond calculations submitted in 2008, 2014, and 2019. There have been changes in the approved facility since the 2019 update that have been incorporated into this model. The SRCE files are shown in Attachment A, and the Cost data file are shown in Attachment B.

5.1. Built-In Sheets

The below headings discuss the activities and assumptions used in estimating the closure costs in the order they appear in the SRCE spreadsheet.

5.1.1. General and Administration (G&A)

Costs of air transportation (plane and helicopter), camp support, power, and water treatment were provided for by updating costs with available rates or adjusting for inflation and considering the closure and post-closure activity schedules in User Sheet 5. Calculations have been included in User Sheet 5 and entered in the G&A worksheet. Details are provided in the sections below.

5.1.1.1. Air Transportation

Helicopters and planes are utilized depending on whether they transport passengers and/or equipment. Copies of quotes or information are included in Attachment C.

5.1.1.2. Camp Support

Daily camp costs were estimated by use of quotes by ESS Support Services. These costs are presented in Table 1. It has been assumed that the camp would be maintained until the end of the closure period, by which time all buildings will have been removed. The price quote is a per man per day cost associated with camp occupancy based on population bands for a four-year period. These rates include all wages, burden, transportation, and benefit costs, as well as all food, paper, chemicals, and other associated direct and indirect cost. The average cost has been taken and utilized for the closure duration.

Table 1. Camp Cost per man/day

MIN	MAX	Cost
5	5	\$392.88
6	10	\$331.13
11	15	\$218.95
16	20	\$167.10
21	25	\$139.25

5.1.1.3. Power

The power requirements of the closure phase will be based on the following demands in Table 2:

Table 2: Closure Period Power Requirements

Item	Calculated/Supported In	Reflected In
Water treatment	User Sheet 4	Solution Management sheet
Ventilation	User Sheet 5	G&A sheet
Camp	User Sheet 5	G&A sheet

Supporting information for ventilation and camp energy consumption is provided in Section 5.2.5.

5.1.2. Solution Management

HGCMC proposes to collect and store the drainage from the principal resources (underground workings and the tailings facility) in Pond 7 and Pond 10 which respectively contain 31.5 acre-ft and 35.2 acre-ft of water, for a combined capacity of 20.1 million gallons. With the approved expansion of the facility in the 2024 Record of Decision (ROD), a parapet wall placed around both ponds increases the storage capacity to 106.8 acre-feet or 34.8 million gallons. The stored water will be actively treated in the water treatment facility existing on site. Water treatment from the Holding Year through to Year 3 after operations will be treated continuously. After Year 3 the expected flow of water will decrease, and the water will accumulate in the storage ponds and be treated in batches (campaigns). For Years 4-10 both ponds will be utilized for water storage. In Year 11 expected flow will again decrease, after which only Pond 7 will be used for storage. It is assumed the water treatment campaign will continue through year 100. Pond 11 is a temporary storage pond for water reporting to the north east area of the tailings facility. The pond is expected to collect water and pump to the main ponds till Years 4-10 when it is anticipated surface runoff from the tailings stack no longer requires treatment. Water treatment costs are included in the Solution Management sheet. Changes to the water treatment plant and pipe configurations changes are included in the “Other User” sheet.

The Solution Management sheet includes the cost of pumping water for treatment. Electrical costs for Holding Year through Year 3 and Years 4-10 assume the use of grid power and diesel-generated power for batch treatment in the following years (11-100). Following the removal of Site 23 and the decreased flows, crews would be mobilized to the site and the water treatment plant would be started up for discrete campaign runs. The water treatment plant would be operated for the duration it would take to treat the accumulated inventory. Once the accumulated water is treated the plant would be deactivated until the next campaign and the crews mobilized out of the site.

The expenditures in active water treatment are reagents and power. Consumable (reagent) expenditure is provided in User Sheet 4. The currently observed power consumption of the water treatment plant operating at 2,500 gallons per minute (gpm) is 150 kilowatts (kW) energy. Electrical consumption is calculated as follows:

$$150 \text{ kW}/2,500 \text{ gpm} = 150 \text{ kW}/(2,500 \text{ gal}/\text{min} \times 60 \text{ min}/\text{hr})$$

$$= 0.001 \text{ kilowatt hours (kWh)}/\text{gal}$$

For grid power, the cost per gallon becomes the following:

$$\$0.15/\text{kWh} \times 0.001 \text{ kWh}/\text{gal} = \$0.00015/\text{gallon}$$

For diesel-generated power (discussed in Section 6.4.2), the cost is calculated below:

$$\$0.30/\text{kWh} \times 0.001\text{kWh}/\text{gal} = \$0.00030/\text{gallon}$$

The treatment crew is assumed to consist of one foreman and one laborer. The duration and frequency of the campaigns are calculated on User Sheet 4 and linked to the Solution Management sheet heading “Treatment.” Pond 10 will be decommissioned in Year 11, the water treatment plant will be replaced in Year 50, and Pond 7 will be relined in Year 50 provision for these costs are provided in “Process Ponds” and “Other User.”

5.1.3. Human Resources

The size of the average active reclamation crew is estimated to be 25 persons. Most of these (such as equipment operators and laborers) are captured as the labor elements of reclamation activities in the various cost calculations by task. The rest consist of administrative and other technical personnel and are entered in the Human Resources worksheet. Human resources costs over the course of the closure period are calculated for the holding crew (2 skilled laborers), technical and administrative support over the active closure period, and the monitoring crew for Holding Year through Year 100.

This sheet also includes the cost of employing a crew for batch water treatment. This sheet was used instead of entering the crew in the Solution Management sheet because extra time was required for travel, startup and shutdown of the plant past the active closure years. These labor costs are derived from the numbers of days per year as calculated in User Sheet 4 (described in Section 5.2.4).

5.1.4. Other User

The Other User worksheets have been used to include costs for items not covered under other built in worksheets in the SRCE model. Calculations from User Sheet tabs are linked and referenced here. Costs linked from the User Sheets are discussed under their respective headings and are annotated in the “Comment” column.

The items listed in the Other User Sheet include the following and can be referenced through the comments column in the SRCE:

1. Lime purchase for short-lag disposal
2. Internal mill infrastructure demolition
3. Post-closure cover maintenance - Tailings
4. Outfall pipeline and facilities maintenance
5. Various waste disposal
6. Bridge Demolition
7. Monitoring
8. Marine demo
9. Decontamination
10. Removal of miscellaneous linear items (1 backhoe+2 laborers)
11. Utilization of underground equipment for disposal
12. Small crossings over Zinc and Greens Creek bridge locations
13. Excavator for residual and short-lag material
14. Reconfiguration pumps and pipes
15. Demolish WTP
16. Material deficit
17. Drain Material
18. Mob-demob
19. Pipe for water collection from Pond D
20. WTP replacement - every 50 years
21. Pond cleaning - every 50 years
22. Pond relining - every 50 years

The cost of lime purchase has been estimated through User Sheet 1 by using a quote and the rate of 1% by weight of lime addition to the short-lag material, as discussed in User Sheet 1 (Section 5.2.1). User Sheet 1 also provides a calculation of underground haulage for material disposed of underground. The cost of surface haulage to the portal for materials disposed of underground and the materials disposed of in the tailings storage facility are calculated in the Haul Materials sheet. The accompanying excavator

time is calculated in the Other User sheet by dividing the total volume of material to be handled by dividing with the corrected productivity of the excavator.

The mill demolition cost estimate is discussed in Section 5.2.6.

The plan has a special provision for post-closure cover maintenance for engineered covers. The model has an in depth cost estimate for post closure maintenance of revegetation and erosion given the engineered cover maintenance is a specialized item, it has been further carried into this cost estimate to account for engineered cover-specific activities.

The maintenance of the outfall pipeline was an assumption in the 2014 estimate which has been incorporated through User Sheet 5 with the assumption of maintenance once every three years after active reclamation. User Sheet 6 includes a calculation for demolition of the water treatment plant for eventual demolition. A provision for capital cost of ~\$106,000 in reconfiguring pumps and pipe systems during water treatment has been assumed. The required labor is assumed to span a month with support from a backhoe, and a welder is assumed for a quarter of that time. A crew is defined in the “Fleets (Crews)” sheet as User Crew 3 with the welder and associated equipment number at 0.25 (rounded and displayed as “0”) and linked to the Other User sheet for direct multiplication of the crew cost with hours.

The disposal of production rock material, demolition of marine structures, monitoring, bridge demolition, waste disposal and decontamination, and monitoring are discussed in Sections 5.2.1, 5.2.3, 5.2.7, 5.2.9, and 5.2.11, respectively.

Existing growth media stockpiles will be used for cover construction on the TDF. The deficit will be purchased.

Most of the surface pipes will be removed with the potentially acid generating (PAG) material at the various locations. Two weeks of time for a crew of a backhoe with operator and two laborers (User Crew #1 in the Fleets/Crews sheet) has been used to estimate a cost to remove and dispose of any remaining surface pipes as well as culvert crossings.

The removal of materials and disposal to the underground will require double handling. These are calculated under User Sheet 1 (discussed in 5.2.1). An extra excavator is assumed to be required to excavate the material for the haulage fleet.

Periodic safety inspections of the dam system are included through calculations in User 8. Mobilization-demobilization is included through calculations in User 2.

Pond cleaning costs assume that sludge from water treatment will be removed from Pond 7, prior to relining the pond. The timing will coincide with the replacement of the water treatment plant in Year 50.

5.1.5. Tailings

The tailings pile will be capped with a four-layer system including (from bottom to top) a capillary break, a compacted barrier layer, a drain layer and growth media (Attachment D). Costs for haulage and placement of site-derived growth media, the capillary break and drain layers and the barrier layer are calculated in the Haul Material worksheet. The costs for importing any cover material deficit is calculated in the Other User worksheet.

The tailings facility is designed with final slopes at 3H:1V. Input values are obtained from an AutoCAD file shown on Figure 1. The inputs are summarized in Table 3 for the full buildout of the current approved facility. Given an assumption of hydroseeding, it is assumed that the application of the hydroseed will include ripping/scarifying and this is not further selected in the SRCE.

Table 3: Tailings Storage Facility Input Values

Sub-division	Mid-bench length (ft)	Height (ft)	Area (acres)
Area 1 - North East	516	180	4.47
Area 2 - North	811	240	12.39
Area 3 - Far North	389	150	4.23
Area 4 - North West	849	180	5.63
Area 5 - West	1556	280	27.73
Area 6 - South	832	200	10.02
Area 7 - East	1234	180	10.24
Total			

5.1.6. Roads

Both A Road and B Road will be reclaimed. The roads include some PAG material which will need to be removed for disposal. This calls for reclamation and closure of roads by the end of the closure period. These quantities are covered under the Haul Material sheet (surface haulage) and User Sheet 1 (underground haulage). The reclamation of roads will be one of the last activities on site before the completion of the closure period in order to service the reclamation activities. It has been assumed that during the post-closure period, in the absence of roads, the crews necessary for monitoring, maintenance, and water treatment would be mobilized to site by helicopter. There will be a section of the road from Hawk Inlet to the tailings storage facility that will be left (approximately 1 mile) to allow for mobilized crews to operate past the active closure years. This section of the road will be reclaimed last.

HGCMC proposes that during the post-closure period, with the reclamation of the roads, the crews necessary for monitoring, maintenance, and water treatment would be mobilized to site by helicopter. This is provided under Section 5.2.5 (User Sheet 5).

5.1.7. Underground Openings

The Underground Openings sheet includes the cost to close adits and shafts. Portals will be closed with concrete bulkheads. The 920 portal bulkhead will be constructed to allow gravity drainage to the water treatment plant via a pipeline. Ventilation raises (two reaching the surface and three underground, between levels) will be closed with concrete caps. The dimensions for adits are required as height and width and those for the shafts are required in diameters. Given the ventilation raises in this mine are typically square-shaped, the 10 ft×10 ft dimensions were converted into diameters:

$$\text{Diameter} = (A/\pi)^{0.5 \times 2} = (H \times W/\pi)^{0.5 \times 2} = (10 \times 10/3.14)^{0.5 \times 2} = 11.3 \text{ ft}$$

5.1.8. Haul Materials

The Haul Material worksheet is used to calculate the costs to haul, screen (if applicable), and compact (if applicable). Items included here are the engineered cover materials, Pit 174 glacial till wedge, the concrete foundation debris (from the Foundations and Buildings sheet), and hauling materials to the

tailings storage facility and to the underground mine. The list consists of the potentially acid generating (PAG) materials (“residual” or “short-lag”) stored on the surface according to the summation of incremental distances. Furthermore, for conservative costing it has been assumed that all of Site 23 (Figure 3) will be hauled to the tailings storage facility. For this estimate, it has been assumed that material disposed of underground will be double-handled by first transporting to the portal and then loading the material to underground trucks for transportation to the underground dump site where a dozer will stack the material. The Haul Material sheet therefore includes the initial transportation to the portal. The underground haulage is calculated in User Sheet 1 and discussed in Section 5.2.1.

The Haul Material sheet has an over-ride for the number of equipment utilized. This has been used to make the model calculate the maximum number of trucks that can haul across the roads on site without compromising efficiency (8 trucks) where the model calculates greater numbers of trucks with increasing haulage distance. Truck numbers for haulage items for which fewer trucks are estimated by the model have not been over-ridden.

5.1.9. Foundations and Buildings

Building structures and flat areas (paved or otherwise) were obtained from the most recent site as built drawings.

The 2026 plan includes the additional buildings built or removed over the past 5 years. The SRCE utilizes the dimensions of the buildings as well as the construction material and demolition method in calculating the cost of demolition. Even heights were assumed for most buildings based upon discussions with site personnel.

The Foundations and Buildings worksheet calculates the cost to demolish buildings, load building debris onto dump trucks and haul for 20 miles by default. Buildings will be demolished using a 50-ton crane and loader to knock down walls and load debris into dump trucks. An excavator with a hydraulic hammer will break apart large sections and foundations for hauling. To reflect the cost of double handling debris material by transporting from site to portal and double handling from portal to a location in the underground mine, the concrete slab volume calculated in this sheet and an assumed 10% of the building volume to reflect other building debris, the “Fleets (Crews)” sheet B-8 crew for large building demolition has been adjusted by setting truck and loader costs to zero, leaving only a crane. Then the aforementioned volumes are used in the “Haul Materials” sheet to estimate the cost of hauling the debris materials underground.

5.1.10. Ponds

The ponds at the site are provided in Table 4 and Figures 3, and 4. During closure activities, some of these ponds will be removed along with the PAG material to be disposed of underground or in the tailings storage facility.

Table 4: Pond Input Values

Pond/Basin	Length (ft)	Width (ft)	Depth (ft)	Remarks
Pond 7	327	327	29.0	Reclaimed in Year 100
Pond 10	355	355	29.0	Reclaimed in Year 11
Pond C lower	74	74	2.0	Reclaimed during closure of other facility
Pond C upper	38	38	2.0	Reclaimed during closure of other facility

Pond/Basin	Length (ft)	Width (ft)	Depth (ft)	Remarks
Pond A	140	140	6.0	Reclaimed during closure of other facility
Pond 23	140	140	2.0	Reclaimed during closure of other facility
Pond D	90	90	4.0	Reclaimed during closure of other facility
Pond 11	185	65	11.5	Reclaimed during closure year 4-10

Where pond shapes are not rectangular, assumed dimensions are used to accurately estimate the area.

5.1.11. Yards

The Yards worksheet is used to calculate miscellaneous surface disturbance where little or no grading is required. This includes building areas and any perimeter disturbance around other facilities. A summary of the disturbed acreage is provided in Table 1 of the Reclamation and Closure Plan.

Disturbance areas with Reclamation Plan acreages decreased by SRCE worksheet area calculations are the following:

- 920 mill and portal area (decreased by “Foundations and Buildings” sheet total footprint area which covers both the 920 area and Hawk Inlet)
- Tailings disposal facility (decreased by “Tailings” sheet total footprint area)

5.1.12. Well Abandonment

154 monitoring wells site-wide are assumed to require closure. Of these, 128 monitoring wells will be closed immediately, leaving 26 for closure and post-closure monitoring as per the set of locations in 5.2.7. Two production wells (mill backslope) are also included in the worksheet for abandonment during closure.

5.1.13. Miscellaneous Costs

It is assumed that one of the two substations and the power line are the responsibility of another party. Therefore, one substation will be removed, and demolition costs are entered here and calculated based upon RS Means crew assumptions. The remaining substation will be removed at Year 10, at which time all surface water will gravity flow to the treatment pond and generator sets will be used to provide power for water management and treatment.

5.1.14. Monitoring

The Monitoring worksheet calculates the cost to repair vegetation (re-seed), repair erosion of covers and collect soil and groundwater samples. It has been utilized to estimate revegetation maintenance and erosion maintenance costs assuming that 10% will need to be repaired. The framework of monitoring soil and groundwater is presented in User Sheet 8.

Further monitoring activities for post-closure maintenance of the engineered tailings cover (period of 5 years, cost-per-acre of utilization of a dozer, an excavator, and a compactor as well as materials maintenance) are included in the Other User sheet. The cost for Outfall pipeline maintenance is provided in the Other User sheet (through User Sheet 5).

5.1.15. Construction Management

The Construction Management sheet is used to estimate road maintenance costs. A provision has been made for road maintenance over this period. This will consist of the use of a small water truck and small grader. The number of months is calculated by the multiplication of years of active closure times the number of months in an operating season.

5.2. User Sheets

5.2.1. User Sheet 1 – Rock Removal

This sheet contains a summary table of the amounts of short-lag and residual material (to be disposed of underground or at the tailings storage facility). The amounts in the Plan have been updated to reflect current reclamation activities (e.g., Site E) and increased volumes (e.g., Site 23). These volumes and changes are discussed in HGCMC's annual reports for active and inactive sites. These quantities are reflected in the Haul Materials sheet for calculation of haulage costs to the portal or the tailings storage facility. This sheet is further used to estimate the cost the surface haulage of the short-lag material double-handling (prior to haulage from the portal to the underground stacking location). "Short-lag" refers to potentially acid generating (PAG) material that is assumed to be at or near the point of acidification. "Residual" refers to PAG material that is not short-lag.

An estimate of the amount of lime to be used has also been made based on the total quantities. The amount of lime to be used is estimated as 1% by weight of short-lag material to be hauled. The total amount of lime estimated has been linked to the "Other User" sheet. The cost for lime has been obtained from HGCMC.

5.2.2. User Sheet 2 – Mobilization/Demobilization

The estimation of equipment mobilization/demobilization costs is determined by the number and types of equipment to be mobilized and the number of mobilizations and demobilizations to site (equal to the number of years each piece of equipment would be used for closure).

For this exercise, the SRCE file has been evaluated as a whole. The hours calculated by the standard SRCE sheets (Tailings, Roads, Haul Material, Foundations and Buildings, Yards, and Process Ponds as well as some miscellaneous items used in Well Abandonment and Construction Management sheets) have been considered. Also taken into consideration is the underground equipment utilized in the user sheets. This exercise goes hand in hand with the task of scheduling the costs in the Cost Schedule sheet (discussed in Section 5.3).

5.2.3. User Sheet 3 – Marine Demo Summary

This sheet has been used to calculate the cost of demolition of marine structures as provided for in the 2008 estimate. The details for these items have been gathered from the individual sheets used in the 2008 plan. Costs specific to marine demolition were adjusted for inflation and an additional ~\$530,000 added. These costs have been linked into the Other User sheet.

5.2.4. User Sheet 4 – Water Treatment Summary

This sheet provides a summary of water treatment quantities by intervals as provided by Petros GeoConsulting Inc. (2014). The values in the 2014 SRCE model were vetted by Petros GeoConsulting Inc. against the 2018 sitewide water balance (EDE 2018). Water modeling data used for the 2014 model was more conservative as compared to the 2018 water balance. HGCMC decided to maintain the use of the conservative values from 2014 for the 2019 update. Numbers were updated as appropriate for this more recent update using numbers from KCB. The pressure heads and pumping and treatment quantities and routine maintenance costs from this sheet are linked to the Solution Management sheet.

The quantity of surface water requiring treatment will vary over the closure and post closure period. This sheet provides an estimated production quantity (in gallons per minute) for each interval. The

annual number of days required to treat the accumulated water is also estimated and used to calculate a labor cost in the Human Resources worksheet.

5.2.5. User Sheet 5 – Administration

General and administration (G&A) and human resources have been itemized and reflected under the SRCE sheets for G&A and Human Resources, respectively. Costs for long-term water treatment support elements (landing craft and meals) are included. For the purposes of this estimate, general and administration includes the following items:

- Camp support
- Power costs - camp
- Power costs - ventilation
- Transportation
- Landing craft for materials/equip costs
- Meals for WTP crew

Transportation to the site will be required for personnel, monitoring, and batch treatment of water. It is assumed that during the closure period, airplanes will be used. It is estimated that about five aircraft would be used to transport staff. These numbers and the fact that staff and operational personnel will be transported to site five months of the year are taken into consideration when estimating the number of trips in a year when monitoring and batch treating water are combined. These costs are then reflected in the SRCE sheet G&A. During post-closure, helicopters will be used to transport personnel and some items after the roads have been closed.

Power costs other than the power to treat water consist of underground ventilation and power for the camp. Power requirements for one main and two auxiliary fans for air flow rate of 205,000 cfm is estimated at 290 kW/hour. Peak power requirements for the camp are estimated at between 125 kW/hour and 188kW/hour. The average of these values was (157kW/hour) multiplied by a factor of 0.75, to adjust for the reduced power consumption at night and during the workday. For modeling purposes, it was assumed the camp is in use continuously from the Holding Year through Year 3. These numbers are used to estimate the underground ventilation and camp energy consumption costs. Camp support costs are calculated here based on a quote from ESS Support Services.

5.2.6. User Sheet 6 – Mill Demolition

This worksheet provides a summary of the various mill demolition tasks calculated elsewhere and includes a cost item to dismantle and remove the interior infrastructure prior to demolition of the buildings. This cost item is being calculated because the SRCE Buildings and Foundations demolition costs are based upon RS Means. RS Means assumes a standard industrial building with a standard amount of interior infrastructure. This is applicable to most buildings at a mine site except for a mill which has more complicated infrastructure.

There is no published data on the time required for this task. For the 2014 Plan SRK assumed a value based upon their experience with other demolition cost estimates. It is assumed two B-8 work crews would take three months to accomplish the work. Because the mill infrastructure has not changed HGCMC will continue to use this assumption.

Only Task 2 'Remove all internal mill parts, cut into pieces for transport underground' found on User 6, is entered in the Other User worksheet as the other tasks are calculated elsewhere (Foundations and Buildings and User 14 sheets) and only provided here to illustrate the total mill demolition costs.

5.2.7. User Sheet 8 - Monitoring

Cost items in this sheet comprise the following:

- Underground Care and Maintenance
- Suite Q
- QA/QC
- Stormwater
- APDES
- Marine water sampling
- Marine sediment and organism
- Site-wide vegetation
- Dam stability monitoring
- Dam PSI reporting

Table 5 provides surface and ground water monitoring locations with three additional locations to be monitored during the reclamation and post closure period. In the case of the three additional monitoring locations, they were assumed to be monitored at the same frequency as Site 54. These numbers may be reduced depending on monitoring results. The costs are linked to the “Other User” sheet.

In addition to the above monitoring discharged waters to the environment will also be monitored under the regulatory structure of the Alaska Pollutant Discharge Elimination System (APDES) permit. This will include monitoring of the 002 Outfall, stormwater discharges, marine waters, marine sediments, and marine organisms. Costs for stability monitoring and periodic safety inspections of the dams are included on User Sheet 8.

Table 5: Surface and Ground Water Monitoring Locations

Site	Name
6	Greens Creek Middle
9	Tributary Creek Lower
13	1350 East
27	Tailings Downgradient South Shallow
29	Tailings Downgradient West Shallow
32	Tailings Downgradient West Shallow 2
46	Bruin Creek Upper
48	Greens Creek Upper
49	Bruin Creek Lower
54	Greens Creek Lower 1
56	Site 23 Downgradient*
57	Site 23 Upgradient*
60	Tailings Stormwater Pond Downgradient 1
61	Greens Creek Flood Plain
62	Greens Creek Lower 2
609	Further Creek Lower
711	Greens Creek Above Site E
712	Greens Creek Below Site E
New site	Mine Drainage
New site	Tailings Drainage
New site	Site 23 Drainage

5.2.8. User Sheet 9- Guardrail Removal

Guardrail onsite will be removed following the majority needs of the road. The costs of removing the guardrails have been estimated with labor and equipment costs needed to complete the removal of the guardrail onsite. The related underground disposal costs have been added to User Sheet 1. Some assumptions were made based on operator knowledge. These costs have been summarized in “Other User” sheet. The length of guardrail was calculated using GIS to calculate the length of guardrail onsite. It was assumed a crew of three (two skilled laborers and an equipment operator) would be required to unbolt, remove posts, load, and haul the material to the portal. Hauling was assumed to be able to be done via the excavator operator while the laborers are removing guardrail removing the need for a fourth operator. Equipment mobilization/demobilization was added to User Sheet 2.

5.2.9. User Sheet 10 – Summary of RS Means Cost Calculations

RS Means costs were used in earlier versions of the reclamation and closure model. A few calculations remain that that reference RS Means, in calculations they are manipulated to provide unit costs based upon the labor, equipment and materials costs used in the SRCE. The crew makeup and productivity is used from the RS Means database as a basis for this new calculation. This worksheet provides a summary of the RS Means calculations and is linked to allow updates to automatically occur should the input cost data be changed.

5.2.10. User Sheet 11 – Bridge Demolition

Bridge demolition costs have been updated with available labor and equipment costs and adjusted material costs. These costs have been entered in the “Other User” sheet. The related decontamination costs have been calculated in User Sheet 14. During reclamation the bridges will be modified to support the pipelines. Demolition will consist of removing bridge components that will not be needed to support the pipeline (e.g. decking, guard rails and splash guards).

5.2.11. User Sheet 12 – Surface Disturbance Summary

This sheet summarizes the surface disturbances cited in the referenced sources for use elsewhere in the spreadsheet, particularly the “Yards” sheet which aims to include the areas that are not included in the various SRCE sheets calculations.

5.2.12. User Sheet 14 – Waste Disposal and Decontamination

Decontamination and disposal of various wastes are calculated in this worksheet. The tasks are summarized in Table 6. Cost calculations were carried forward from previous models and updated or inflated for current unit costs.

Table 6: Waste Disposal

Item	Activities
Waste Disposal	Industrial Waste Disposal
	Waste Material Disposal
	Scrap Shipping and Specialty Equipment for Cleanup
	Radiation Source Disposal
Decontamination	Prep of Demo Scrap
	Prep of Re-Bar Scrap
	Stockpiling Scrap
	Loading of Scrap
	Miscellaneous Demo

5.2.13. User Sheet 20 – Bond Calculation

This sheet uses the data from the cost schedule to calculate the surety. It follows the model that was used for the surety calculation in Waste Management Permit No. 2019BD0003. The calculation is based upon 200 years of data, derived from the cost schedule. The first four years (Holding Year – Year 3), commonly referred to as active reclamation, are funded directly from the surety. Long-term care, maintenance, and water treatment costs (Year 4 – Year 200+) are funded from a trust fund. It is assumed that the trust will be started by the end of the Holding Year from surety funds. The rate of return (3.97%) for the trust fund was established by the US Forest Service and accepted by the ADEC and the ADNRR. Monies derived from the trust fund in Years 1-3 will be reinvested into the trust, resulting in the trust being fully funded by Year 4. The rate of inflation was calculated from the Anchorage Consumer Price Index over the past 5 years. This rate will need to be verified and updated when the renewal is issued.

This calculation uses the same indirect cost percentages as in the current approved Plan. Indirect cost percentages are applied against all the direct costs, however when they are received in the estimate varies Table 7.

Table 7: Indirect Cost Percentages

Indirect Cost	Rate	Received in Year
Engineering, Design and Construction Plan	2.75%	HY
Contingency	13.00%	HY - In perpetuity
Performance Bond	3.00%	HY - Year 3
Contractor Profit	15.50%	HY - In perpetuity
Contract Administration	7.00%	HY - In perpetuity
TOTAL	41.25%	

5.3. Cost Schedule

Cost calculated in the various worksheets are entered into the schedule by task and according to the year they will be completed. Included below are the assumptions used to build the schedule:

- The closure costs and active water treatment costs are scheduled out to 100 years to represent water treatment in perpetuity.
- There will be one “holding year” before the closure period begins.
- The closure period is scheduled to last three years.

- Reclamation activities during the closure period will be seasonal and scheduled for five and a half months per year.
- Water treatment activities during the reclamation phase will be continuous and scheduled for twelve months per year.
- Equipment will be mobilized for each summer construction season and at year 10 and year 100 for subsequently scheduled activities.
- The removal of Site 23 to the tailings storage facility will require 2 years. Following removal of Site 23, the removal of other waste rock sites and other material moving activities will be completed.
- Prior to Year 10, pumping of water from the base of Site D to the TDF pipeline (or underground) may be required and the cost of power for this purpose is included in the estimate. After Year 10, the substation providing line power for pumping will be removed, after which water collection in ponds will occur via gravity flow and power for pumping water to the ponds and from the ponds will be provided by diesel generators.
- Zinc Creek, Falls Creek, Killer Creek and Greens Creek bridges will be modified to serve as pipeline crossings for long term water management.
- Most wells will be abandoned during the active closure period. Some will remain for long-term monitoring and will be abandoned in year 100.
- Post-closure activities during Years 11-99 will consist of monitoring, water treatment plant batch operations, and water treatment plant replacement in Year 50.

At the end of the active closure period, the remaining roads will be reclaimed, except for the section of B Road that leads from Hawk Inlet to the water treatment plant and ponds. The section of B Road not reclaimed at the end of active closure will be reclaimed in Year 100 when equipment will be mobilized for closure of the water treatment plant, the ponds providing for batch treatment, and the last remaining bridges.

6. UNIT COST DATA DEVELOPMENT

6.1. Project Cost Bases

The SRCE works by importing user cost data from a file (“user cost data file”) with different “bases”. Once these data are imported, they are reproduced in the following sheets of the SRCE and used within the spreadsheet:

- labor rates
- equipment rates
- material costs
- miscellaneous unit costs

A discussion is provided below for how these rates have been fed to the user cost data file.

6.2. Labor

Labor rates have been acquired from the Alaska Pamphlet 600 Issue 51 effective September 1, 2025. If costs were lower than the Davis-Bacon Act Wage Determinations # AK20260001, the Davis-Bacon Act Wage Determinations were used. The model uses different crew sizes to account for activities and assumes work will be completed based on the Total Hourly Rate at 40 hours per week. Actual work may utilize smaller crew sizes and provide overtime at 1.5 times the base rate. Table 8 provides an overview of the total hourly rates.

Fringe benefits and expenses were not incorporated into labor rates as items such as housing and travel are assumed to be provided. These camp support costs are calculated separately.

Table 8: Total Hourly Rate by Groups Used

Name	Group	Total Hourly Rate (\$)	Source
CARP1281-002	Carpenter	82.31	Alaska Pamphlet 600 Issue 61
ENGI0302-002 Group 1A	Equipment Operator	84.83	Alaska Pamphlet 600 Issue 61
A1601	Equipment Operator	82.73	Alaska Pamphlet 600 Issue 61
A1602	Equipment Operator	84.83	DBA-WD
ENGI0302-002, Group 1	Equipment Operator	82.73	DBA-WD
A1604	Driller's Helper	80.96	Alaska Pamphlet 600 Issue 61
A2101	Truck Driver	81.10	Alaska Pamphlet 600 Issue 61
A2102	Truck Driver	82.57	Alaska Pamphlet 600 Issue 61
A2105	Truck Driver	78.02	Alaska Pamphlet 600 Issue 61
LABO0942-001, Group 2	Laborer	75.51	DBA-WD
N1201	General Laborer	74.86	Alaska Pamphlet 600 Issue 61
N1203	Skilled Laborer	76.76	Alaska Pamphlet 600 Issue 61
N2204	Driller	85.79	Alaska Pamphlet 600 Issue 61

DBA-WD

Davis-Bacon Act- Wage Determinations

6.3. Equipment

The SRCE has a set list of equipment for which monthly rates can be input through the user cost data file. The monthly equipment rates are converted to hourly rates and add-ons such as fuel, lube, wear, etc., are added for total rates. The source data for equipment costs is provided in the cost data file (Attachment B). Equipment rental rates and fuel consumption rates for underground mining equipment were obtained from a contractor.

The SRCE calculates a “wet” hourly rate (hourly rate including fuel) for equipment. For equipment not included in the Cost Data file, wet equipment rates were estimated. These fuel consumption rates are summarized in Table 9.

Table 9: Fuel Consumption Rates

Equipment	gal/hr
Track Hoe with Shear*	6
Lowboy Trailer*	8
8,000 lbs. Grade All*	3
MT2010***	7.77
MT436B***	9.4
ST2G**	3.75
ST2D**	3.75
Turbo Turf Hydroseeder 750 gallon****	2

* Source: 2008 Reclamation Plan highly variable based on operating conditions, grade, and load. Previous estimates were used

** Source: CMI Alaska, 2012- highly variable based on operating conditions, grade, and load. Previous estimates were used

***Source: CMI Alaska, 2026

****Source: Manufacturer

6.4. Materials

The following are the principal materials utilized in the model:

- off-road diesel
- electrical power
- diesel power
- hydroseed mix
- cement
- monitoring costs
- other miscellaneous unit costs

Each element is discussed separately below.

6.4.1. Diesel

The diesel fuel cost utilized for this cost estimate were derived from actual costs incurred per gallon, freight costs per gallon, state refundable tax per gallon, and City and Borough of Juneau (CBJ) .05% fees. This state refundable tax is a highway tax that is reimbursed for non-highway use. The average of 2021-2025 price per gallon was used to calculate the costs of fuel from PetroMarine adding in the above fees.

Diesel:

- \$3.34/gallon + Freight \$0.37/gallon + State Refundable Tax \$0.06/gallon + SEAPRO fees \$0.01/gallon) + CBJ fees 0.05% on costs = \$3.78/gallon

6.4.2. Electricity and Diesel Generated Power

Electrical power at the site is assumed to be that currently used at the site (\$0.15/kWh).

The cost of diesel-generated power in \$/kWh has been calculated from the cost of fuel as per the assumptions below. It is furthermore assumed that grid power would be utilized until the end of Year 10 when the closure period is over. After this, power requirements for activities such as water treatment would be supplied by generators. This generated power cost is calculated by the following formula and utilized as a user over-ride in the SRCE in the Solution Management sheet.

Fuel burn rate: 0.078 gallons/kWh

Generator repairs, maintenance, etc.: 0.062 ¢/kWh Cost per generated kWh:

$\$3.78/\text{gallon} \times 0.078 \text{ gallons/kWh} + \$0.00062/\text{kWh}$

$\approx \$0.30/\text{kWh}$

6.4.3. Seed

Costs for seeding assumed using the highest cost seed mix for all areas with the maximum amount of mulch and fertilizer applied. Since the SRCE requires a cost per acre input these were converted as shown in Table 10.

Table 10: Seed Costs

Item	Cost per bag (\$)	Unit (lb. bag)	Application Rate (lb/ac)	Cost per Acre (\$)
Seed	21.30	1	25	532.50
Mulch	9.50	50	100	342.00
Fertilizer	21.66	50	300	129.96
			Total	1,901.00

Source: Quote from vendor 2025

Labor rates for skilled labor were used. For the equipment cost, a rental quote was obtained from Yukon Equipment (2026) using a 750-gallon hydroseeder and used to calculate hydroseeding equipment rates in \$/acre.

$$(\$6,000 / \text{month} \times 1 \text{ month} / 334 \text{ hrs} + 2 \text{ gal} / \text{hr} \times \$4.33/\text{gal}) \times (11 \text{ hours/day}) / (15 \text{ acres/day}) \\ = \$19.43/\text{acre}$$

These data have been entered in the cost data file under “Seeding - Broadcast Mechanical” in the “Misc. Unit Costs” sheet and the revegetation method in the sheet “Material Costs” has been set to “Seeding - Broadcast Mechanical”.

6.4.4. Cement

The SRCE typically requires the cost of cement in 50-lb. bags for calculation of costs related to concrete usage, such as underground working plugging. Therefore, with the default SRCE assumption that one 50-lb bag mixes with water to make 0.21 yd³ or 0.16 m³ of grout/cement slurry, the concrete cost is \$48.03/bag cement.

$$\text{Cement: } (\$228/\text{yd}^3) \times (0.21 \text{ yd}^3/\text{bag}) = \$48.03/50\text{-lb bag}$$

The cost for a 50-lb bag of bentonite is

$$\text{Bentonite: } \$16.88/50\text{-lb bag}$$

6.4.5. Other Miscellaneous Material Costs

Other Material costs are included in the following sheets:

- User Sheet 8 – Monitoring (discussed in Section 5.2.8)
- User Sheet 14 – Waste Disposal and Decontamination (discussed in Section 5.2.11)

6.5. Indirect Costs

Indirect costs consist of the following at the indicated rates and are valid for all cost bases provided in a cost data file:

1. Engineering and redesign 2.75%
2. Contractor profit and overhead 15%
3. Contract administration 3.5%
4. Government administration 3.5%
5. Performance bond 1.5%
6. Payment bond 1.5%
7. Insurance 0.5%
8. Scope contingency 6.5%
9. Bid contingency 6.5%

In the cost data file, insurance has been included together with the contractor overhead for a total of 15.5%. Scope contingency and bid contingency are also provided together for a total of 13%. Contract administration and government administration are provided together as a total of 7%.

7. CONCLUSIONS

The SRCE model calculation for the direct closure cost is estimated at \$107,092,294. Together with indirect costs including engineering, design and construction plan, contingency, insurance, contractor overhead, performance bond, contractor profit, contract administration, and government indirect costs at a total of 41% of direct costs, or \$44,175,572 the grand total is estimated at \$151,267,866.

As with the current bond, required under WMP 2019DB0003, HGCMC intends to fund this bond with a surety. The surety will cover both the active reclamation phase and the long-term water treatment and maintenance costs. Long-term costs will be funded from a trust started with surety monies. HGCMC estimates, using the calculation logic from section 4 “Financial Responsibility” of WMP 2019DB0003, that the financial responsibility for the life of the renewed permit, unless modified, will be \$127,465,276.

8. REFERENCES

Davis-Bacon Act Wage Determinations # AK20260001

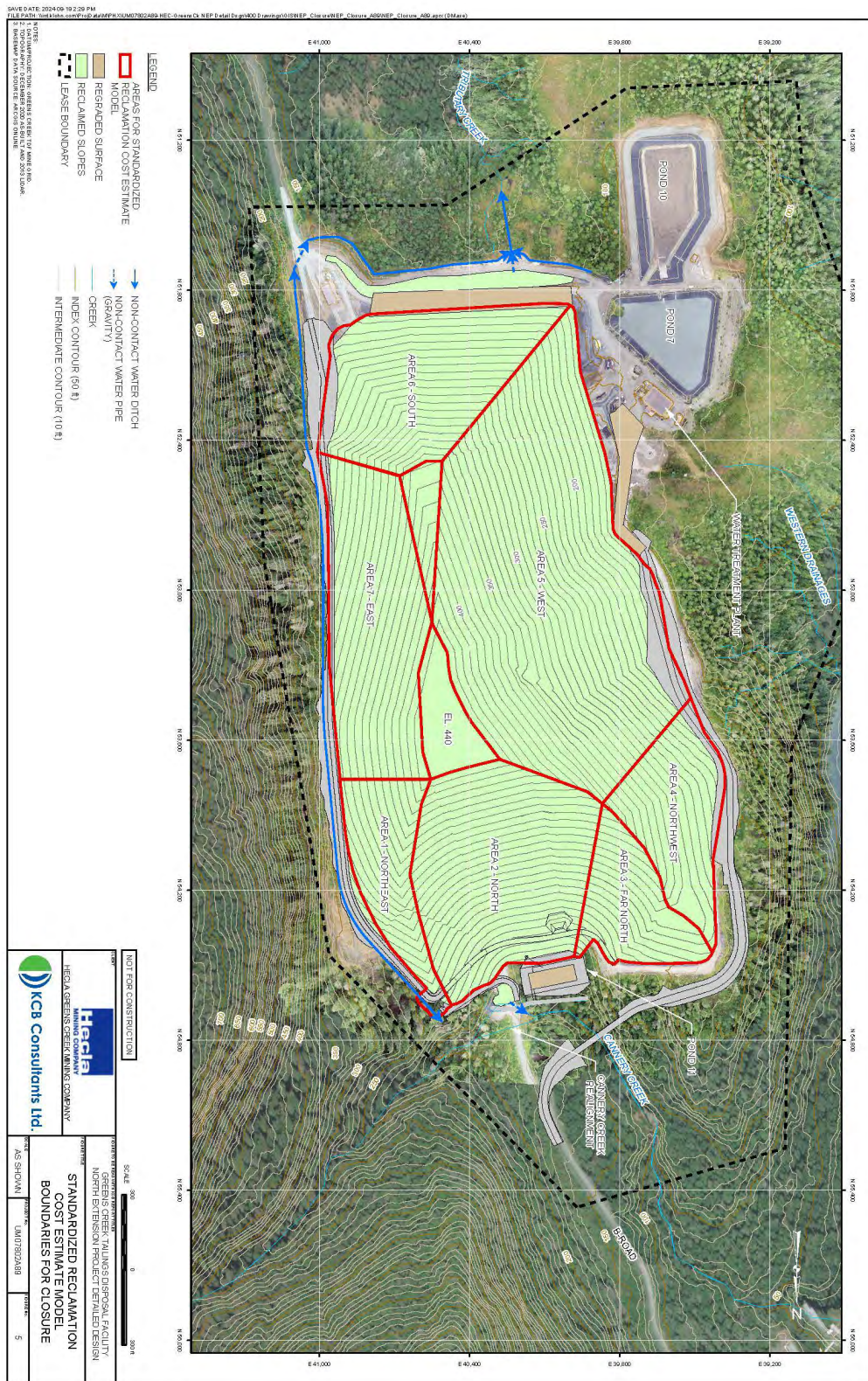
Alaska Labor Rates Pamphlet 600 - Issue 51 September 1, 2025

RS Means Online

Greens Creek, 2020. General Plan of Operations, Appendix 14, Attachment A, Greens Creek Mining Company.

Petros GeoConsulting Inc., 2014. Potential active treatment of closure water. September 12, 2012. [Updated January 19, 2014].

Figure 1: TDF SRCE Input Parameters



GPO Appendix 14.B-32

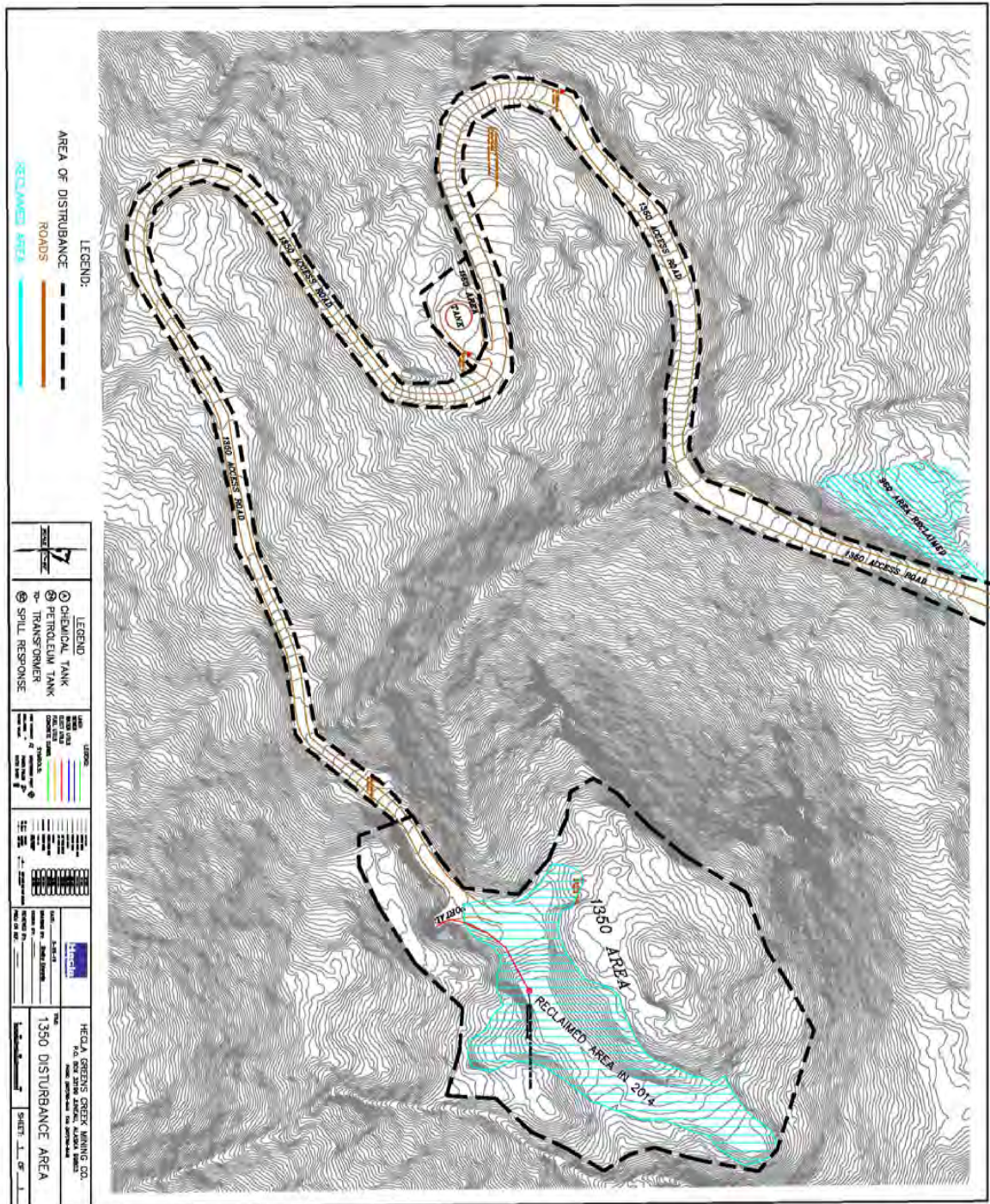


Figure 3: 920 Area

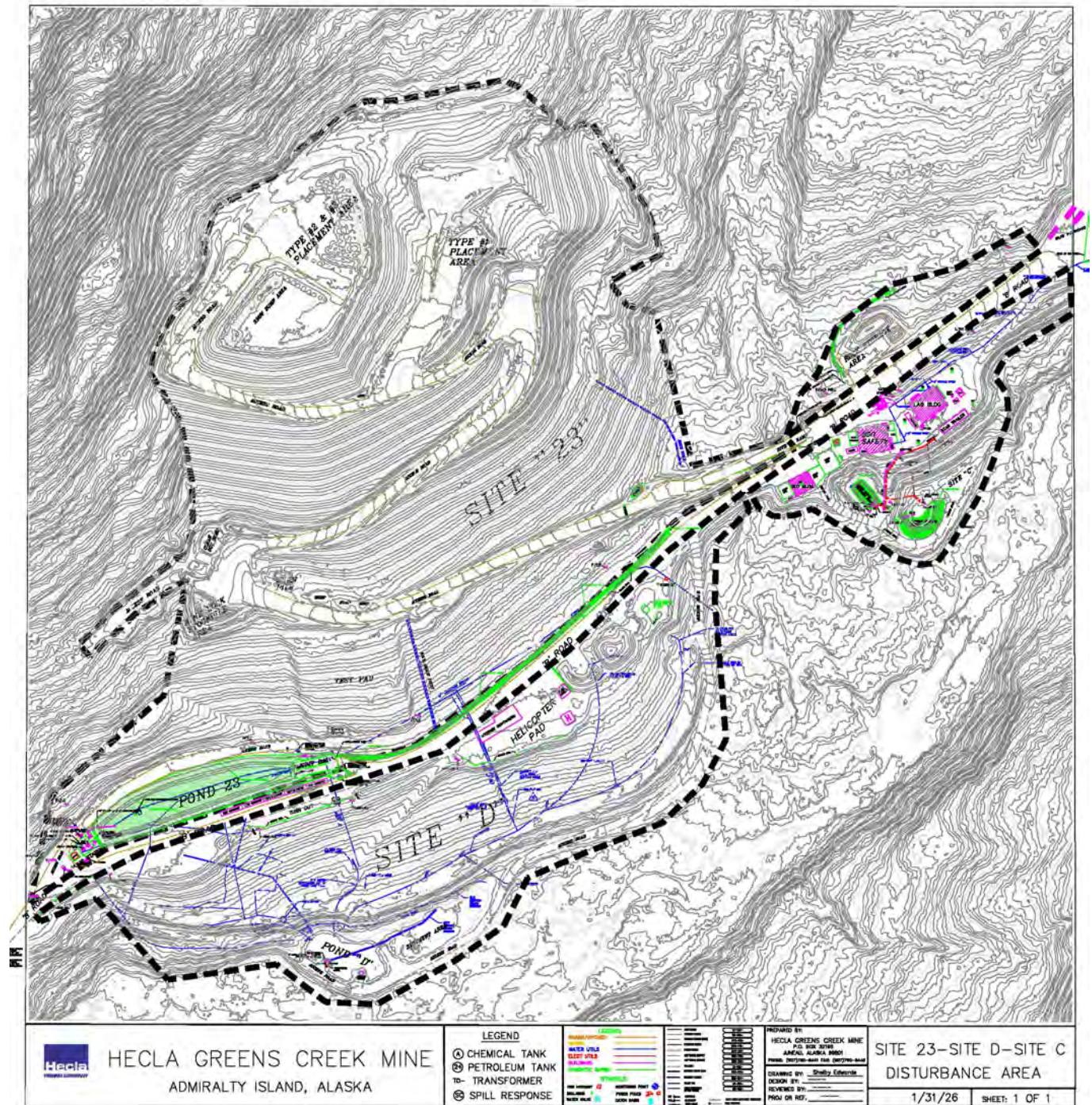
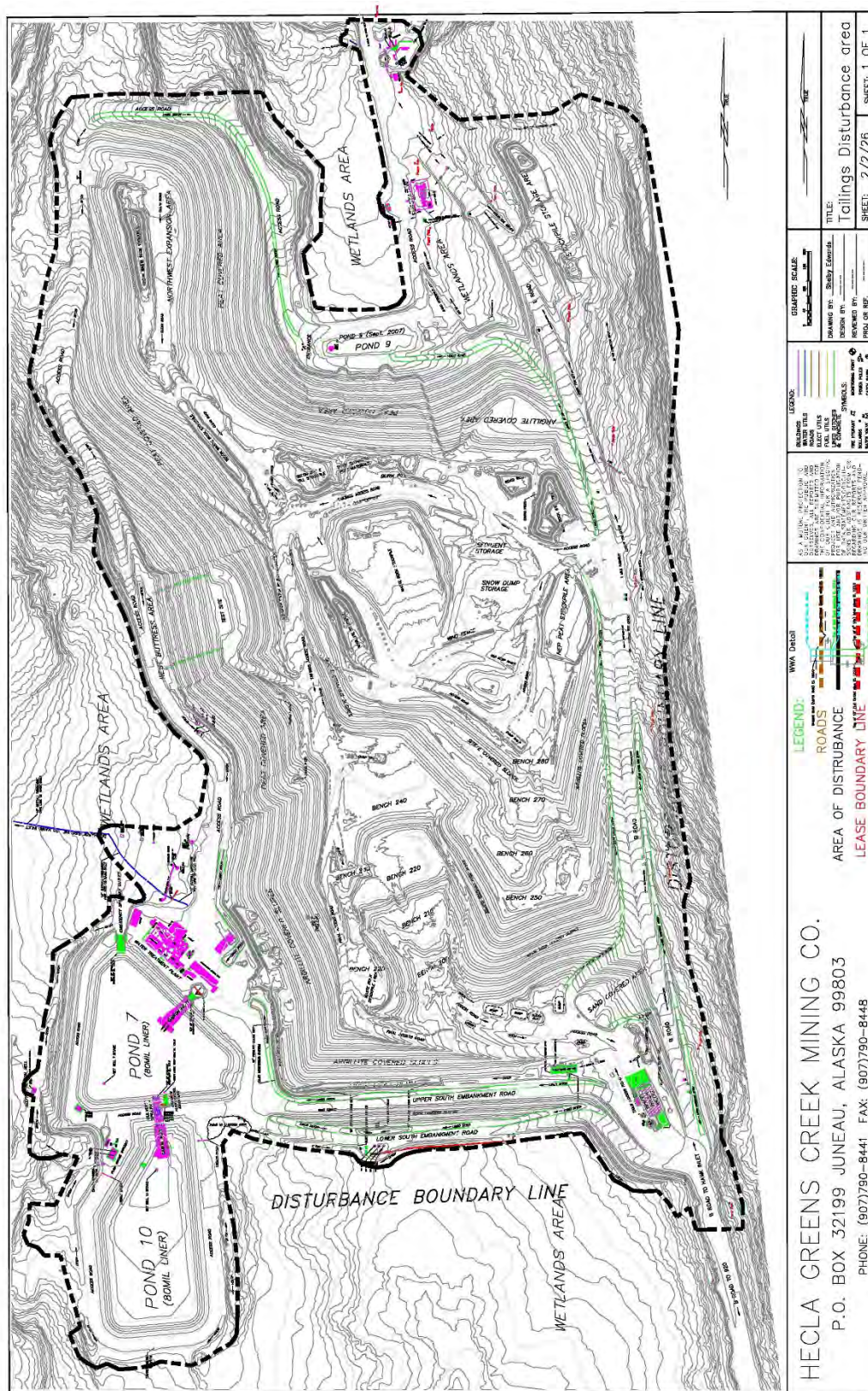


Figure 4: Tailings Disposal Facility



[illegible]

Figure 6: A&B Road





**GPO Appendix 14
Attachment C
Standardized
Reclamation Cost
Estimator**

Closure Cost Estimate
Property Information

Enter Data Below in Green and Blue Spaces

STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1

Build 016d (revised 18 February 2025)

NOT YET VALIDATED FOR REGULATORY USE IN NEVADA

COST DATA FILE INFORMATION			
File Name:	HGCMC SRCE Model_Updated 20260324.xlsm		
Cost Data File:	HGCMC_SRCE_Cost_Data_Updated202603.xlsm		
Cost Data Date:	March 4, 2026		
Cost Data Basis:	User Data	Data Cost Units:	Imperial
Author/Source:	Greens Creek		

PROJECT INFORMATION			
Property/Mine Name:	Greens Creek	Property Code:	
Project Name:	SRCE Update 2026		
Date of Submittal:	March 2026	Average Altitude:	600 ft.
Units of Measure:	☐ Metric (m, km, ha, etc.)	☒ Imperial (ft, mi, acres, etc.)	
Select One:	☐ Notice or Sm Exploration Plan	☐ Lg Exploration Plan	☒ Mine Operation
Select One:	☐ Private Land	☒ Public or Public/Private	
Cost Estimate Type:	ARO		
Cost Basis Category:	Greens Creek - March 2026		Go to Labor Sheet to Enter Zone Adjustments
Cost Basis Description:	Equipment and labor rates updated based on HGCMC provided costs, Pamphlet 600 - Issue 51, Davis-Bacon Act WD # AK20260001, provided quotes, and RS Means Online when direct quotes unavailable. Equipment without direct costs utilized an inflation rate from the 2019 estimate. Cost(2025) = Cost (2019) * 1.100 (4.0% inflation rate) 2019/2025 2025/2025 2025/2025 2025/2025		
☐ This project is in the State of Nevada			

Closure Cost Estimate
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Project Name: SRCE Update 2026
Project Date: March 2026
HGCMC SRCE Model_Updated 20260324.xlsm
Reclamation Plan

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Description

**Closure Cost Estimate
Cost Summary**

**Project Name: SRCE Update 2026
Project Date: March 2026
Model Version: Version 1.4.1
File Name: HGCMC SRCE Model_Updated 20260324.xlsm**

A. Earthwork/Recontouring	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads	\$136,322	\$192,488	\$0	\$328,810
Well Abandonment	\$126,937	\$27,448	\$2,029	\$156,414
Pits	\$0	\$0	N/A	\$0
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings	\$47,558	\$4,117	\$16,458	\$68,133
Process Ponds	\$127,968	\$166,632	\$0	\$294,600
Heaps	\$0	\$0	\$0	\$0
Waste Rock Dumps	\$133,608	\$178,618	\$0	\$312,226
Landfills	\$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$220,730	\$218,962	\$0	\$439,692
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling	\$7,915,554	\$9,308,143	\$0	\$17,223,697
Other User Costs (from Other User sheet)	\$1,072,804	\$1,338,689	\$19,818,498	\$22,229,991
Other**				\$0
Subtotal	\$9,781,481	\$11,435,097	\$19,836,985	\$41,053,563
Mob/Demob if included in Other User sheet	\$0	\$962,977	\$0	\$962,977
Mob/Demob				\$0
Subtotal "A"	\$9,781,481	\$12,398,074	\$19,836,985	\$42,016,540
B. Revegetation/Stabilization	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads	\$0	\$1,346	\$131,169	\$132,515
Well Abandonment				N/A
Pits	\$0	\$0	\$0	\$0
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings				N/A
Process Ponds	\$0	\$183	\$15,018	\$15,201
Heaps	\$0	\$0	\$0	\$0
Waste Rock Dumps	\$0	\$1,875	\$182,477	\$184,352
Landfills	\$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$4,188	\$407,766	\$411,954
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "B"	\$0	\$7,592	\$736,430	\$744,022
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Process Ponds/Sludge				\$0
Heaps				\$0
Dumps (Waste & Landfill)				\$0
Tailings				\$0
Surplus Water Disposal				\$0
Monitoring				\$0
Miscellaneous				\$0
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
Pumping (from Solution Mgmt sheet)	\$0	\$428,424	N/A	\$428,424
Evaporation (from Solution Mgmt sheet)	\$0	\$0	\$0	\$0
Treatment (from Solution Mgmt sheet)	\$0	\$11,343,359	\$1,254,566	\$12,597,925
Decontamination (from Solution Mgmt sheet)	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$1,302,579	\$2,030,815	\$9,270,827	\$12,604,222
Other**				\$0
Subtotal "C"	\$1,302,579	\$13,802,599	\$10,525,393	\$25,630,571
D. Structure, Equipment and Facility Removal, and Misc.	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Foundation & Buildings Areas	\$1,472,656	\$510,794	\$0	\$1,983,450
Other Demolition	\$0	\$0	\$0	\$0
Equipment Removal	\$0	\$0	\$0	\$0
Fence Removal	\$0	\$0	\$0	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert Removal	\$0	\$0	N/A	\$0
Pipe Removal	\$0	\$0	N/A	\$0
Powerline Removal	\$0			\$0
Transformer Removal	\$71,088			\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Misc. Costs	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$3,075,660	\$1,374,410	\$398,733	\$4,848,803
Other**				\$0
Subtotal "D"	\$4,619,404	\$1,885,204	\$398,733	\$6,903,341
E. Monitoring	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials	Total
Reclamation Monitoring and Maintenance	\$7,556	\$23,475	\$78,642	\$109,673
Ground and Surface Water Monitoring	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$301,701	\$793,812	\$6,524,150	\$7,619,664
Subtotal "E"	\$309,257	\$817,287	\$6,602,792	\$7,729,337
F. Construction Management & Support	Labor	Equipment ⁽²⁾	Materials	Total
Construction Management	\$0	\$0	N/A	\$0
Construction Support	\$0	\$0	\$0	\$0
Road Maintenance	\$234,184	\$148,611	\$0	\$382,795
Other User Costs (from Other User sheet)	\$16,062	\$1,972	\$8,439	\$26,473
Other**				\$0
Subtotal "F"	\$250,246	\$150,583	\$8,439	\$409,268
G. Closure Planning, G&A, Human Resources			Include?	Total
Closure Planning				\$0

Closure Cost Estimate
Cost Summary

Project Name: SRCE Update 2026

Project Date: March 2026

Model Version: Version 1.4.1

File Name: HGCMC SRCE Model_Updated 20260324.xlsm

General & Administration				\$11,903,288
Human Resources				\$11,755,927
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "G"	\$0	\$0	\$0	\$23,659,215
Subtotal Operational & Maintenance Costs	Labor ⁽¹⁾	Equipment ⁽²⁾	Materials ⁽³⁾	Total
Subtotal A through G	\$16,262,968	\$29,061,340	\$38,108,773	\$107,092,294

** Other Operator supplied costs - additional documentation required.

**Closure Cost Estimate
Cost Summary**

**Project Name: SRCE Update 2026
Project Date: March 2026
Model Version: Version 1.4.1
File Name: HGCMC SRCE Model_Updated 20260324.xlsm**

Indirect Costs				Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)					\$2,945,038
2. Contingency (8)					\$13,921,998
3. Insurance (9)				\$0	\$0
4. Performance Bond (10)					\$3,212,769
5. Contractor Profit (11)					\$16,599,306
6. Contract Administration (12)					\$7,496,461
7. Government Indirect Cost (13)					\$0
Subtotal Add-On Costs					\$44,175,572
Total Indirect Costs as % of Direct Cost					41%
GRAND TOTAL					\$151,267,866
Administrative Cost Rates (%)					
Cost Ranges for Indirect Cost Percentages					
	<=	<=	<=	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	\$500,000	\$2,500,000	\$25,000,000	\$25,000,000	Small Plan
Variable Rate	3%	3%	0.0275	3%	3%
2. Contingency (8)	\$500,000	\$5,000,000	\$50,000,000	\$50,000,000	Small Plan
Variable Rate	13%	13%	13%	13%	13%
3. Insurance (9)	0.0%	of labor costs			
4. Bond (10)	3.0%	of the O&M costs if O&M costs are >\$100,000			
5. Contractor Profit (11)	16%	of the O&M costs			
6. Contract Administration (12)	\$1,000,000	\$15,000,000	\$25,000,000	\$25,000,000	
Variable Rate	7%	7%	0.07	7%	7%
0	0%	\$0			

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES
NOTE :

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_ Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Clear Schedule

Cost Schedule and Financial Analysis

Budget Year:	2026	Inflation Rate (r) (%):	0.0%	Engineering, Design and Construction Plan (%)	3%
First Year of Operation	1989	Market Risk (MR)(%):	0.0%	Contingency (%)	13.0%
Operating Period	years	Discount Rate (i)(%):	0.0%	Contractor OH and Profit (CP)(%):	16%
Closure Year 1:	2027			Contract Administration (%)	7%
Closure Period:	4 years	Closure Period:			
Post Closure Period	99 years	Post Closure Period:		Show how many years in schedule (10 to 100)	100

Set Years

<<< Set years and click "Set Years" button

Term (t)(years):			Total From Cost Summary	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	Schedule Variance			2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046		
A. Earthwork/Recontouring																										
Exploration	\$	-	\$	-																						
Exploration Roads & Drill Pads	\$	-	\$	-																						
Roads	\$	-	\$	328,810			\$	328,810																		
Well Abandonment	\$	-	\$	156,414	\$	133,107																				
Pits	\$	-	\$	-																						
Quarries & Borrow Areas	\$	-	\$	-																						
Underground Openings	\$	-	\$	68,133			\$	68,133																		
Process Ponds	\$	-	\$	294,600	\$	10,769									\$	149,992										
Heaps	\$	-	\$	-																						
Waste Rock Dumps	\$	-	\$	312,226	\$	156,113	\$	156,113																		
Landfills	\$	-	\$	-																						
Tailings	\$	-	\$	-																						
Foundation & Buildings Areas	\$	-	\$	-																						
Yards, Etc.	\$	-	\$	439,692	\$	146,564	\$	146,564	\$	146,564																
Drainage & Sediment Control	\$	-	\$	-																						
Generic Material Hauling	\$	-	\$	17,223,697	\$	5,735,611	\$	5,735,611	\$	5,735,611																
Other User Costs (from Other User sheet)	\$	-	\$	22,229,991	\$	7,409,997	\$	7,409,997	\$	7,409,997																
Other**	\$	-	\$	-																						
Mob/Demob if included in Other User sheet	\$	-	\$	962,977	\$	354,985	\$	228,424	\$	231,920	\$	58,959	\$	28,808				\$	-							
Mob/Demob	\$	-	\$	-																						
Subtotal "A"	\$	-	\$	42,016,540	\$	-	\$	13,947,146	\$	13,676,709	\$	13,921,035	\$	58,959	\$	28,808	\$	-	\$	-	\$	-	\$	-	\$	-
B. Revegetation/Stabilization																										
Exploration	\$	-	\$	-																						
Exploration Roads & Drill Pads	\$	-	\$	-																						
Roads	\$	-	\$	132,515			\$	132,515																		
Well Abandonment				N/A																						
Pits	\$	-	\$	-																						
Quarries & Borrow Areas	\$	-	\$	-																						
Underground Openings				N/A																						
Process Ponds	\$	-	\$	15,201		\$	15,201																			
Heaps	\$	-	\$	-																						
Waste Rock Dumps	\$	-	\$	184,352		\$	184,352																			
Landfills	\$	-	\$	-																						
Tailings	\$	-	\$	-																						
Foundation & Buildings Areas	\$	-	\$	-			\$	-																		
Yards, Etc.	\$	-	\$	411,954	\$	137,318	\$	137,318	\$	137,318																
Drainage & Sediment Control	\$	-	\$	-																						
Generic Material Hauling	\$	-	\$	-																						
Other User Costs (from Other User sheet)	\$	-	\$	-																						
Other**	\$	-	\$	-																						
Subtotal "B"	\$	-	\$	744,022	\$	-	\$	137,318	\$	336,871	\$	269,833	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
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	\$	-	\$	-																						
Pumping (from Solution Mgmt sheet)	\$	-	\$	428,424	\$	32,645	\$	27,588	\$	28,872	\$	28,872	\$	5,196	\$	5,196	\$	5,196	\$	5,196	\$	2,230	\$	2,230	\$	2,230
Evaporation (from Solution Mgmt sheet)	\$	-	\$	-																						
Treatment (from Solution Mgmt sheet)	\$	-	\$	12,597,925	\$	(639,167)	\$	189,262	\$	189,262	\$	189,262	\$	131,972	\$	131,972	\$	131,972	\$	131,972	\$	131,972	\$	131,972	\$	131,972
Decontamination (from Solution Mgmt sheet)	\$	-	\$	-																						
Other User Costs (from Other User sheet)	\$	-	\$	12,604,222	\$	529,433	\$	798,225	\$	311,359	\$	456,850														
Other**	\$	-	\$	-																						
Subtotal "C"	\$	-	\$	25,630,571	\$	(77,088)	\$	1,015,076	\$	529,493	\$	674,985	\$	137,168	\$	137,168	\$	137,168	\$	137,168	\$	134,202	\$	134,202	\$	134,202
D. Structure, Equipment and Facility Removal, and Misc.																										
Foundation & Buildings Areas	\$	-	\$	1,983,450		\$	1,981,014																			
Other Demolition	\$	-	\$	-																						
Equipment Removal	\$	-	\$	-																						
Fence Removal	\$	-	\$	-																						
Fence Installation	\$	-	\$	-																						
Culvert Removal	\$	-	\$	-																						
Pipe Removal	\$	-	\$	-																						
Powerline Removal	\$	-	\$	-																						
Transformer Removal	\$	-	\$	71,088																						
Rip-rap, rock lining, gabions	\$	-	\$	-																						
Other Misc. Costs	\$	-	\$	-																						
Other User Costs (from Other User sheet)	\$	-	\$	4,848,803		\$	2,376,118	\$	2,376,118	\$	996,567															
Other**	\$	-	\$	-																						
Subtotal "D"	\$	-	\$	6,903,341	\$	-	\$	4,357,132	\$	2,376,118	\$	96,567	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
E. Monitoring																										
Reclamation Monitoring and Maintenance	\$	-	\$	109,673				\$	21,935	\$	21,935	\$	21,935	\$	21,935											
Ground and Surface Water Monitoring (calculated from user input in Monitoring Sheet)	\$	-	\$	-																						

F. Construction Management & Support																											
Construction Management		\$	-	\$	-																						
Construction Support		\$	-	\$	-																						
Road Maintenance		\$	-	\$	382,795		\$127,598		\$127,598		\$127,598																
Other User Costs (from Other User sheet)		\$	-	\$	26,473						\$26,473																
Other**		\$	-	\$	-																						
Subtotal "F"		\$	-	\$	409,268	\$	-	\$	127,598	\$	127,598	\$	154,071	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

G. Closure Planning, G&A, Human Resources																								
Closure Planning	\$	-	\$	-																				
General & Administration	\$	-	\$	11,903,288	\$	841,667	\$	1,232,217	\$	1,146,087	\$	1,102,146	\$	89,232	\$	89,232	\$	71,988	\$	71,988	\$	71,988	\$	71,988
Human Resources	\$	-	\$	11,755,927	\$	1,398,646	\$	1,080,833	\$	1,080,833	\$	1,080,833	\$	400,196	\$	400,196	\$	130,682	\$	130,682	\$	130,682	\$	130,682
Other User Costs (from Other User sheet)	\$	-	\$	-																				
Other**	\$	-	\$	-																				
Subtotal "G"	\$	-	\$	23,659,215	\$	2,240,313	\$	2,313,050	\$	2,226,920	\$	2,182,979	\$	489,428	\$	489,428	\$	202,670	\$	202,670	\$	202,670	\$	202,670

Subtotal Operational & Maintenance Costs																								
Subtotal A through G	\$	-	\$	107,092,294	\$	2,506,309	\$	22,217,007	\$	19,543,397	\$	17,569,157	\$	1,221,576	\$	1,163,237	\$	702,565	\$	752,565	\$	724,377	\$	461,704

Indirect Costs																								
1. Engineering, Design and Construction (ED&C) Plan (7)	\$	-	\$	2,945,038	\$	2,945,038																		
2. Contingency (8)	\$	-	\$	13,921,998	\$	325,820	\$	2,888,211	\$	2,540,642	\$	2,283,990	\$	158,805	\$	151,221	\$	91,333	\$	97,833	\$	94,169	\$	60,022
3. Insurance (9)	\$	-	\$	-																				
4. Performance Bond (10)	\$	-	\$	3,212,769	\$	803,192	\$	803,192	\$	803,192	\$	803,192												
5. Contractor Profit (11)			\$	16,599,306	\$	388,478	\$	3,443,636	\$	3,029,227	\$	2,723,219	\$	189,344	\$	180,302	\$	108,898	\$	116,648	\$	112,278	\$	71,564
6. Contract Administration (12)			\$	7,496,461	\$	175,442	\$	1,555,190	\$	1,368,038	\$	1,229,841	\$	85,510	\$	81,427	\$	49,180	\$	52,680	\$	50,706	\$	32,319
7. Government Indirect Cost (13)	\$	-	\$	-																				
Subtotal Add-On Costs	\$	-	\$	44,175,572	\$	4,637,970	\$	8,690,230	\$	7,741,098	\$	7,040,243	\$	433,659	\$	412,949	\$	249,410	\$	267,160	\$	257,154	\$	163,905

Grand Total (Undiscounted)	\$	-	\$	151,267,866	\$	7,144,279	\$	30,907,237	\$	27,284,495	\$	24,609,401	\$	1,655,235	\$	1,576,185	\$	951,975	\$	1,019,725	\$	981,531	\$	625,609

Inflation Adjustment (Future Value = FV)	FV = Se ^(rt)				\$	7,144,279	\$	30,907,237	\$	27,284,495	\$	24,609,401	\$	1,655,235	\$	1,576,185	\$	951,975	\$	1,019,725	\$	981,531	\$	625,609
Market Risk Adjustment	(MR x FV)				\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Future Value (FV _{adj})	FV _{adj} = (FV + MR)				\$	7,144,279	\$	30,907,237	\$	27,284,495	\$	24,609,401	\$	1,655,235	\$	1,576,185	\$	951,975	\$	1,019,725	\$	981,531	\$	625,609
Net Present Value (PV)	PV = FV _{adj} /(1+i) ^t				\$	151,267,865	\$	7,144,279	\$	30,907,237	\$	27,284,495	\$	24,609,401	\$	1,655,235	\$	1,576,185	\$	951,975	\$	1,019,725	\$	981,531

Grand Total (Undiscounted)		\$	151,267,865
Grand Total (Inflation Adjusted) (FV)		\$	151,267,865
Grand Total Market Risk Adjusted (FV _{adj})		\$	151,267,865
Grand Total Net Present Value (NPV)		\$	151,267,865

\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230
\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972
\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202

\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$24,012	\$24,012	\$49,364	\$24,012	\$83,364	\$45,824	\$24,012	\$24,012	\$45,824	\$83,364	\$21,888	\$43,700	\$25,428	\$21,888	\$103,052	\$21,888	\$21,888	\$43,700	\$21,888	\$81,240
\$ 24,012	\$ 24,012	\$ 49,364	\$ 24,012	\$ 83,364	\$ 45,824	\$ 24,012	\$ 24,012	\$ 45,824	\$ 83,364	\$ 21,888	\$ 43,700	\$ 25,428	\$ 21,888	\$ 103,052	\$ 21,888	\$ 21,888	\$ 43,700	\$ 21,888	\$ 81,240

\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740
\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072
\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812

\$ 279,025	\$ 279,025	\$ 304,377	\$ 279,025	\$ 338,377	\$ 300,838	\$ 279,025	\$ 279,025	\$ 300,838	\$ 338,377	\$ 276,901	\$ 298,714	\$ 280,441	\$ 276,901	\$ 358,066	\$ 276,901	\$ 276,901	\$ 298,714	\$ 276,901	\$ 336,253

\$ 36,273	\$ 36,273	\$ 39,569	\$ 36,273	\$ 43,989	\$ 39,109	\$ 36,273	\$ 36,273	\$ 39,109	\$ 43,989	\$ 35,997	\$ 38,833	\$ 36,457	\$ 35,997	\$ 46,549	\$ 35,997	\$ 35,997	\$ 38,833	\$ 35,997	\$ 43,713
\$ 43,249	\$ 43,249	\$ 47,179	\$ 43,249	\$ 52,448	\$ 46,630	\$ 43,249	\$ 43,249	\$ 46,630	\$ 52,448	\$ 42,920	\$ 46,301	\$ 43,468	\$ 42,920	\$ 55,500	\$ 42,920	\$ 42,920	\$ 46,301	\$ 42,920	\$ 52,119
\$ 19,532	\$ 19,532	\$ 21,306	\$ 19,532	\$ 23,686	\$ 21,059	\$ 19,532	\$ 19,532	\$ 21,059	\$ 23,686	\$ 19,383	\$ 20,910	\$ 19,631	\$ 19,383	\$ 25,065	\$ 19,383	\$ 19,383	\$ 20,910	\$ 19,383	\$ 23,538
\$ 99,054	\$ 99,054	\$ 108,054	\$ 99,054	\$ 120,124	\$ 106,797	\$ 99,054	\$ 99,054	\$ 106,797	\$ 120,124	\$ 98,300	\$ 106,043	\$ 99,557	\$ 98,300	\$ 127,113	\$ 98,300	\$ 98,300	\$ 106,043	\$ 98,300	\$ 119,370

\$ 378,079	\$ 378,079	\$ 412,431	\$ 378,079	\$ 458,501	\$ 407,635	\$ 378,079	\$ 378,079	\$ 407,635	\$ 458,501	\$ 375,201	\$ 404,757	\$ 379,998	\$ 375,201	\$ 485,179	\$ 375,201	\$ 375,201	\$ 404,757	\$ 375,201	\$ 455,623

\$ 378,079	\$ 378,079	\$ 412,431	\$ 378,079	\$ 458,501	\$ 407,635	\$ 378,079	\$ 378,079	\$ 407,635	\$ 458,501	\$ 375,201	\$ 404,757	\$ 379,998	\$ 375,201	\$ 485,179	\$ 375,201	\$ 375,201	\$ 404,757	\$ 375,201	\$ 455,623
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 378,079	\$ 378,079	\$ 412,431	\$ 378,079	\$ 458,501	\$ 407,635	\$ 378,079	\$ 378,079	\$ 407,635	\$ 458,501	\$ 375,201	\$ 404,757	\$ 379,998	\$ 375,201	\$ 485,179	\$ 375,201	\$ 375,201	\$ 404,757	\$ 375,201	\$ 455,623
\$ 378,079	\$ 378,079	\$ 412,431	\$ 378,079	\$ 458,501	\$ 407,635	\$ 378,079	\$ 378,079	\$ 407,635	\$ 458,501	\$ 375,201	\$ 404,757	\$ 379,998	\$ 375,201	\$ 485,179	\$ 375,201	\$ 375,201	\$ 404,757	\$ 375,201	\$ 455,623

\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 2,230	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773
\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972
										\$ 10,508,354									
\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 134,202	\$ 10,642,556	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745

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\$43,700	\$21,888	\$21,888	\$43,700	\$81,240	\$21,888	\$43,700	\$21,888	\$21,888	\$103,052	\$21,888	\$21,888	\$43,700	\$21,888	\$81,240	\$43,700	\$21,888	\$21,888	\$43,700	\$81,240
\$ 43,700	\$ 21,888	\$ 21,888	\$ 43,700	\$ 81,240	\$ 21,888	\$ 43,700	\$ 21,888	\$ 21,888	\$ 103,052	\$ 21,888	\$ 21,888	\$ 43,700	\$ 21,888	\$ 81,240	\$ 43,700	\$ 21,888	\$ 21,888	\$ 43,700	\$ 81,240

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\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$67,740	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432
\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$53,072	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762
\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 120,812	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194

\$ 298,714	\$ 276,901	\$ 276,901	\$ 298,714	\$ 336,253	\$ 276,901	\$ 298,714	\$ 276,901	\$ 276,901	\$ 276,901	\$ 10,883,284	\$ 316,827	\$ 316,827	\$ 338,639	\$ 316,827	\$ 376,179	\$ 338,639	\$ 316,827	\$ 316,827	\$ 338,639

\$ 38,833	\$ 35,997	\$ 35,997	\$ 38,833	\$ 43,713	\$ 35,997	\$ 38,833	\$ 35,997	\$ 35,997	\$ 35,997	\$ 1,414,827	\$ 41,187	\$ 41,187	\$ 44,023	\$ 41,187	\$ 48,903	\$ 44,023	\$ 41,187	\$ 41,187	\$ 44,023
\$ 46,301	\$ 42,920	\$ 42,920	\$ 46,301	\$ 52,119	\$ 42,920	\$ 46,301	\$ 42,920	\$ 42,920	\$ 42,920	\$ 1,686,909	\$ 49,108	\$ 49,108	\$ 52,489	\$ 49,108	\$ 58,308	\$ 52,489	\$ 49,108	\$ 49,108	\$ 52,489
\$ 20,910	\$ 19,383	\$ 19,383	\$ 20,910	\$ 23,538	\$ 19,383	\$ 20,910	\$ 19,383	\$ 19,383	\$ 19,383	\$ 761,830	\$ 22,178	\$ 22,178	\$ 23,705	\$ 22,178	\$ 26,333	\$ 23,705	\$ 22,178	\$ 22,178	\$ 23,705
\$ 106,043	\$ 98,300	\$ 98,300	\$ 106,043	\$ 119,370	\$ 98,300	\$ 106,043	\$ 98,300	\$ 98,300	\$ 98,300	\$ 3,863,566	\$ 112,474	\$ 112,474	\$ 120,217	\$ 112,474	\$ 133,543	\$ 120,217	\$ 112,474	\$ 112,474	\$ 120,217

\$ 404,757	\$ 375,201	\$ 375,201	\$ 404,757	\$ 455,623	\$ 375,201	\$ 404,757	\$ 375,201	\$ 375,201	\$ 375,201	\$ 14,746,850	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856

\$ 404,757	\$ 375,201	\$ 375,201	\$ 404,757	\$ 455,623	\$ 375,201	\$ 404,757	\$ 375,201	\$ 375,201	\$ 375,201	\$ 14,746,850	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 404,757	\$ 375,201	\$ 375,201	\$ 404,757	\$ 455,623	\$ 375,201	\$ 404,757	\$ 375,201	\$ 375,201	\$ 375,201	\$ 14,746,850	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856
\$ 404,757	\$ 375,201	\$ 375,201	\$ 404,757	\$ 455,623	\$ 375,201	\$ 404,757	\$ 375,201	\$ 375,201	\$ 375,201	\$ 14,746,850	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856

\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773	\$ 3,773
\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972	\$ 131,972
\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745	\$ 135,745

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\$21,888	\$43,700	\$21,888	\$21,888	\$103,052	\$21,888	\$21,888	\$43,700	\$21,888	\$81,240	\$43,700	\$21,888	\$21,888	\$43,700	\$81,240	\$21,888	\$43,700	\$21,888	\$21,888	\$103,052
\$ 21,888	\$ 43,700	\$ 21,888	\$ 21,888	\$ 103,052	\$ 21,888	\$ 21,888	\$ 43,700	\$ 21,888	\$ 81,240	\$ 43,700	\$ 21,888	\$ 21,888	\$ 43,700	\$ 81,240	\$ 21,888	\$ 43,700	\$ 21,888	\$ 21,888	\$ 103,052

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\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432	\$88,432
\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762	\$70,762
\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194	\$ 159,194

\$ 316,827	\$ 338,639	\$ 316,827	\$ 316,827	\$ 397,991	\$ 316,827	\$ 316,827	\$ 338,639	\$ 316,827	\$ 376,179	\$ 338,639	\$ 316,827	\$ 316,827	\$ 338,639	\$ 376,179	\$ 316,827	\$ 338,639	\$ 316,827	\$ 316,827	\$ 397,991

\$ 41,187	\$ 44,023	\$ 41,187	\$ 41,187	\$ 51,739	\$ 41,187	\$ 41,187	\$ 44,023	\$ 41,187	\$ 48,903	\$ 44,023	\$ 41,187	\$ 41,187	\$ 44,023	\$ 48,903	\$ 41,187	\$ 44,023	\$ 41,187	\$ 41,187	\$ 51,739
\$ 49,108	\$ 52,489	\$ 49,108	\$ 49,108	\$ 61,689	\$ 49,108	\$ 49,108	\$ 52,489	\$ 49,108	\$ 58,308	\$ 52,489	\$ 49,108	\$ 49,108	\$ 52,489	\$ 58,308	\$ 49,108	\$ 52,489	\$ 49,108	\$ 49,108	\$ 61,689
\$ 22,178	\$ 23,705	\$ 22,178	\$ 22,178	\$ 27,859	\$ 22,178	\$ 22,178	\$ 23,705	\$ 22,178	\$ 26,333	\$ 23,705	\$ 22,178	\$ 22,178	\$ 23,705	\$ 26,333	\$ 22,178	\$ 23,705	\$ 22,178	\$ 22,178	\$ 27,859
\$ 112,474	\$ 120,217	\$ 112,474	\$ 112,474	\$ 141,287	\$ 112,474	\$ 112,474	\$ 120,217	\$ 112,474	\$ 133,543	\$ 120,217	\$ 112,474	\$ 112,474	\$ 120,217	\$ 133,543	\$ 112,474	\$ 120,217	\$ 112,474	\$ 112,474	\$ 141,287

\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856	\$ 509,722	\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278

\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856	\$ 509,722	\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278
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\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856	\$ 509,722	\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278
\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278	\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$ 429,300	\$ 429,300	\$ 458,856	\$ 509,722	\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278

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\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	109,673
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\$	21,888	\$	21,888	\$	43,700	\$	21,888	\$	81,240	\$	43,700	\$	21,888	\$	21,888	\$	43,700	\$	81,240	\$	21,888	\$	7,619,664
\$	21,888	\$	21,888	\$	43,700	\$	21,888	\$	81,240	\$	43,700	\$	21,888	\$	21,888	\$	103,052	\$	21,888	\$	21,888	\$	7,729,337

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																					\$	382,795	
																					\$	26,473	
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\$	316,827	\$	316,827	\$	338,639	\$	316,827	\$	376,179	\$	338,639	\$	316,827	\$	316,827	\$	338,639	\$	607,052	\$	81,240	\$	107,092,294	

																					\$	2,945,038																				
\$	41,187	\$	41,187	\$	44,023	\$	41,187	\$	48,903	\$	44,023	\$	41,187	\$	41,187	\$	44,023	\$	41,187	\$	41,187	\$	51,739	\$	41,187	\$	41,187	\$	44,023	\$	78,917	\$	10,561	\$	13,921,998							
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\$	49,108	\$	49,108	\$	52,489	\$	49,108	\$	58,308	\$	52,489	\$	49,108	\$	49,108	\$	52,489	\$	49,108	\$	49,108	\$	61,689	\$	49,108	\$	49,108	\$	52,489	\$	94,093	\$	12,592	\$	16,599,306							
\$	22,178	\$	22,178	\$	23,705	\$	22,178	\$	26,333	\$	23,705	\$	22,178	\$	22,178	\$	23,705	\$	22,178	\$	22,178	\$	27,859	\$	22,178	\$	22,178	\$	23,705	\$	42,494	\$	5,687	\$	7,496,461							
																																		\$	-							
\$	112,474	\$	112,474	\$	120,217	\$	112,474	\$	133,543	\$	120,217	\$	112,474	\$	112,474	\$	120,217	\$	133,543	\$	112,474	\$	120,217	\$	112,474	\$	112,474	\$	141,287	\$	112,474	\$	112,474	\$	120,217	\$	215,504	\$	28,840	\$	44,175,572	

\$	429,300	\$	429,300	\$	458,856	\$	429,300	\$	509,722	\$	458,856	\$	429,300	\$	429,300	\$	539,278	\$	429,300	\$	458,856	\$	151,267,866

\$	429,300	\$	429,300	\$	458,856	\$	429,300	\$	509,722	\$	458,856	\$	429,300	\$	429,300	\$	539,278	\$	429,300	\$	458,856	\$	151,267,865
\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
\$	429,300	\$	429,300	\$	458,856	\$	429,300	\$	509,722	\$	458,856	\$	429,300	\$	429,300	\$	539,278	\$	429,300	\$	458,856	\$	151,267,865
\$	429,300	\$	429,300	\$	458,856	\$	429,300	\$	509,722	\$	458,856	\$	429,300	\$	429,300	\$	539,278	\$	429,300	\$	458,856	\$	151,267,865

Closure Cost Estimate Solution Mgmt

Solution/Water Management - Cost Summary

	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation		\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - User Input - Pumping

														Operating Period			User Overrides	
	Description (required)	ID Code	Water Type (select)	Management Type (select)	Capital Cost \$	Flow (Q) gpm	Pipeline Length ft	Static Head ft	Pipe Diameter (ID) in	Pipe Material (select)	Pump Efficiency %	Total Concentrated Losses ⁽¹⁾		Hrs/Day	Days/ Month	Number of Months	Crew Size	Power Cost (\$/kWh)
1	Holding Year (Year 0) - From Main Sump (el 950/890 ²) to A Pond		Contact Water	Active		30.00	260	10.0	4	HDPE	88	0		24.0	30.0	12	0	
2	Holding Year (Year 0) - From A Pond (el 900/838 ² , crest 846) to Pond 7		Contact Water	Active		448.00	3,580	10.0	8	HDPE	88	0		24.0	30.0	12	0	
3	Holding Year (Year 0) - From B Pond Sump (el 890/826 ²) to A Pond		Contact Water	Active		100.00	100	20.0	4	HDPE	88	0		24.0	30.0	12	0	
4	Holding Year (Year 0) - From C Pond (el 850/796 ²) to 23 Pond		Contact Water	Active		7.00	480	96.0	6	HDPE	88	0		24.0	30.0	12	0	
5	Holding Year (Year 0) - From D Pond (el 810/752 ²) to 23 Pond PS		Contact Water	Active		129.00	350	70.0	12	HDPE	88	0		24.0	30.0	12	0	
6	Holding Year (Year 0) - From 23 Pond (el 878/822 ²) to 23 Pond PS		Contact Water	Active		138.00	0	0.0	8	HDPE	88	0		24.0	30.0	12	0	
7	Holding Year (Year 0) - From 23 Pond Pump Station (el 878/822 ²) to Pond 7		Contact Water	Active		558.00	3,500	10.0	8	HDPE	88	0		24.0	30.0	12	0	
8	Holding Year (Year 0) - From Cannery Creek Potable (el 174 ²) to Hawk Inlet Water Bldg		Contact Water	Active		1.00	270	10.0	6	HDPE	88	0		24.0	30.0	12	0	
9	Holding Year (Year 0) - From Hawk Inlet Water Bldg (el 120 ²) to Hawk Inlet Various		Contact Water	Active		1.00	450	10.0	4	HDPE	88	0		24.0	30.0	12	0	
10	Holding Year (Year 0) - From Hawk Inlet Lift Station (el 18 ²) to Sewage Treatment Plant		Contact Water	Active		1.00	310	62.0	4	HDPE	88	0		24.0	30.0	12	0	
11	Holding Year (Year 0) - From Sewage Treatment Plant (el 80 ²) to DB-04		Contact Water	Active		1.00	280	10.0	4	HDPE	88	0		24.0	30.0	12	0	
12	Holding Year (Year 0) - From Seeps (4) (el 18 ²) to DB-04		Contact Water	Active		1.00	100	20.0	2	HDPE	88	0		24.0	30.0	12	0	
13	Holding Year (Year 0) - From Herman's Gulch Sump (el 24 ²) to DB-04		Contact Water	Active		2.00	75	15.0	6	HDPE	88	0		24.0	30.0	12	0	
14	Holding Year (Year 0) - From DB-04 (el ² 24 ²) to Pond 7 via west ditch		Contact Water	Active		33.00	800	160.0	8	HDPE	88	0		24.0	30.0	12	0	
15	Holding Year (Year 0) - From Pond 10 (bottom el 120 ²) including runoff) to Pond 7		Contact Water	Active		28.00	125	25.0	8	HDPE	88	0		24.0	30.0	12	0	
16	Holding Year (Year 0) - From Pond 10 Underdrain WW 11 (el 115 ²) to Pond 10		Contact Water	Active		15.00	155	31.0	8	HDPE	88	0		24.0	30.0	12	0	
17	Holding Year (Year 0) - From WW A (el 132 ²) to Pond 7		Contact Water	Active		146.00	40	8.0	8	HDPE	88	0		24.0	30.0	12	0	
18	Holding Year (Year 0) - From WW 5 (170 ²) to Pond 11		Contact Water	Active		8.00	80	16.0	8	HDPE	88	0		24.0	30.0	12	0	
19	Holding Year (Year 0) - From WW 3 (150 ²) to Pond 7 via west ditch		Contact Water	Active		2.00	50	10.0	6	HDPE	88	0		24.0	30.0	12	0	
20	Holding Year (Year 0) - From WW 12 S3P1 above liner (110 ²) to Pond 7 via east ditch		Contact Water	Active		8.00	150	30.0	8	HDPE	88	0		24.0	30.0	12	0	
21	Holding Year (Year 0) - From WW 13 S3P1 below liner (110 ²) to Pond 7 via east ditch		Contact Water	Active		70.00	150	30.0	8	HDPE	88	0		24.0	30.0	12	0	
22	Holding Year (Year 0) - From WW 15 S3P1 toe pumpback (113 ²) to Pond 7 via east ditch		Contact Water	Active		19.00	135	27.0	8	HDPE	88	0		24.0	30.0	12	0	
23	Holding Year (Year 0) - From Pond 7 (bottom el 122 ²) including runoff to 2500 GPM WTP		Contact Water	Active		809.00	240	48.0	12	HDPE	88	0		24.0	30.0	12	0	
24	Holding Year (Year 0) - From Pond 7 Underdrain pumpback(el 110 ²) to Pond 7		Contact Water	Active		19.00	180	36.0	6	HDPE	88	0		24.0	30.0	12	0	
25	Holding Year (Year 0) - From 2500 GPM WTP (el 170 ²) to APDES Outfall		Contact Water	Active		809.00	850	10.0	14	HDPE	88	0		24.0	30.0	12	0	
26	Holding Year (Year 0) - From APDES Outfall (el 0 ²) to Hawk Inlet		Contact Water	Active		809.00	0	0.0	14	HDPE	88	0		24.0	30.0	12	0	
27	Years 1-3 - From A Pond (el 900/838 ² , crest 846) to Pond 7		Contact Water	Active		448.00	3,580	10.0	8	HDPE	88	0		24.0	30.0	36	0	
28	Years 1-3 - From B Pond Sump (el 890/826 ²) to A Pond		Contact Water	Active		100.00	100	20.0	4	HDPE	88	0		24.0	30.0	36	0	
29	Years 1-3 - From C Pond (el 850/796 ²) to 23 Pond		Contact Water	Active		7.00	480	96.0	6	HDPE	88	0		24.0	30.0	36	0	
30	Years 1-3 - From D Pond (el 810/752 ²) to 23 Pond PS		Contact Water	Active		129.00	350	70.0	12	HDPE	88	0		24.0	30.0	36	0	
31	Years 1-3 - From 23 Pond (el 878/822 ²) to 23 Pond PS		Contact Water	Active		138.00	0	0.0	8	HDPE	88	0		24.0	30.0	36	0	
32	Years 1-3 - From 23 Pond Pump Station (el 878/822 ²) to Pond 7		Contact Water	Active		558.00	3,500	10.0	8	HDPE	88	0		24.0	30.0	36	0	
33	Years 1-3 - From Cannery Creek Potable (el 174 ²) to Hawk Inlet Water Bldg		Contact Water	Active		5.00	270	10.0	6	HDPE	88	0		24.0	30.0	36	0	
34	Years 1-3 - From Hawk Inlet Water Bldg (el 120 ²) to Hawk Inlet Various		Contact Water	Active		5.00	450	10.0	4	HDPE	88	0		24.0	30.0	36	0	
35	Years 1-3 - From Hawk Inlet Lift Station (el 18 ²) to Sewage Treatment Plant		Contact Water	Active		5.00	310	62.0	4	HDPE	88	0		24.0	30.0	36	0	
36	Years 1-3 - From Sewage Treatment Plant (el 80 ²) to DB-04		Contact Water	Active		1.00	280	10.0	4	HDPE	88	0		24.0	30.0	36	0	
37	Years 1-3 - From Seeps (4) (el 18 ²) to DB-04		Contact Water	Active		1.00	100	20.0	2	HDPE	88	0		24.0	30.0	36	0	
38	Years 1-3 - From Herman's Gulch Sump (el 24 ²) to DB-04		Contact Water	Active		2.00	75	15.0	6	HDPE	88	0		24.0	30.0	36	0	
39	Years 1-3 - From DB-04 (el ² 24 ²) to Pond 7 via west ditch		Contact Water	Active		33.00	800	160.0	8	HDPE	88	0		24.0	30.0	36	0	
40	Years 1-3 - From Cannery Creek Withdrawal (el 174 ²) to Truckwash		Contact Water	Active		35.00	550	110.0	4	HDPE	88	0		24.0	30.0	36	0	
41	Years 1-3 - From Pond 10 (bottom el 120 ²) (including runoff) to Pond 7		Contact Water	Active		28.00	125	25.0	8	HDPE	88	0		24.0	30.0	36	0	
42	Years 1-3 - From Pond 10 Underdrain WW 11 (el 115 ²) to Pond 10		Contact Water	Active		15.00	155	31.0	8	HDPE	88	0		24.0	30.0	36	0	
43	Years 1-3 - From WW A (el 132 ²) to Pond 7 - via WW 14		Contact Water	Active		146.00	40	8.0	8	HDPE	88	0		24.0	30.0	36	0	
44	Years 1-3 - From WW 5 (170 ²) to Pond 11		Contact Water	Active		8.00	80	16.0	8	HDPE	88	0		24.0	30.0	36	0	
45	Years 1-3 - From WW 3 (150 ²) to Pond 7 via west ditch		Contact Water	Active		2.00	50	10.0	6	HDPE	88	0		24.0	30.0	36	0	
46	Years 1-3 - From WW 12 S3P1 above liner (110 ²) to Pond 7 via east ditch		Contact Water	Active		8.00	150	30.0	8	HDPE	88	0		24.0	30.0	36	0	
47	Years 1-3 - From WW 13 S3P1 below liner (110 ²) to Pond 7 via east ditch		Contact Water	Active		70.00	150	30.0	8	HDPE	88	0		24.0	30.0	36	0	
48	Years 1-3 - From WW 15 S3P1 toe pumpback (113 ²) to Pond 7 via east ditch		Contact Water	Active		19.00	135	27.0	8	HDPE	88	0		24.0	30.0	36	0	
49	Years 1-3 - From Pond 7 (including runoff) to TDF WTP		Contact Water	Active		818.00	240	48.0	12	HDPE	88	0		24.0	30.0	36	0	
50	Years 1-3 - From Pond 7 Underdrain pumpback(el 110 ²) to Pond 7		Contact Water	Active		19.00	180	36.0	6	HDPE	88	0		24.0	30.0	36	0	
51	Years 1-3 - From 2500 GPM WTP (el 170 ²) to APDES Outfall		Contact Water	Active		818.00	850	10.0	14	HDPE	88	0		24.0	30.0	36	0	
52	Years 1-3 - From APDES Outfall (el 0 ²) to Hawk Inlet		Contact Water	Active		818.00	0	0.0	14	HDPE	88	0		24.0	30.0	36	0	
53	Years 4-10 - From D Pond (el 810/752 ²) to Pond 7		Contact Water	Active		120.00	350	70.0	10	HDPE	88	0		24.0	30.0	84	0	
54	Years 4-10 - From Pond 10 to TDF WTP Batched		Contact Water	Active		13.00	240	48.0	8	HDPE	88	0		24.0	30.0	84	0	
55	Years 4-10 - From Pond 7 (including runoff) to TDF WTP Batched		Contact Water	Active		150.00	240	48.0	12	HDPE	88	0		24.0	30.0	84	0	
56	Years 4-10 - From Pond 7 Underdrain to Pond 7/10		Contact Water	Active		19.00	180	36.0	6	HDPE	88	0		24.0	30.0	84	0	
57	Years 4-10 - From WW 14 (WW A + WW 3) to Pond 7/10		Contact Water	Active		19.00	350	70.0	8	HDPE	88	0		24.0	30.0	84	0	
58	Years 4-10 - From WW 12 to Pond 7/10		Contact Water	Active		8.00	350	70.0	8	HDPE	88	0		24.0	30.0	84	0	
59	Years 11-50 - From Pond 10 to TDF WTP Batched		Contact Water	Active		39.50	65	13.0	8	HDPE	88	0		24.0	30.0	480	0	0.3
60	Years 11-50 - From Pond 7 (including runoff) to TDF WTP Batched		Contact Water	Active		39.50	240	48.0	12	HDPE	88	0		24.0	30.0	480	0	0.3
61	Years 11-50 - From Pond 7 Underdrain to Pond 7/10		Contact Water	Active		14.00	180	36.0	6	HDPE	88	0		24.0	30.0	36	0	0.3
62	Years 11-50 - From WW 14 (WW A + WW 3) to Pond 7/10		Contact Water	Active		14.00	350	70.0	8	HDPE	88	0		24.0	30.0	480	0	0.3
63	Years 11-50 - From WW 12 to Pond 7/10		Contact Water	Active		8.00	350	70.0	8	HDPE	88	0		24.0	30.0	480	0	0.3
64	Years 50-100 - From Pond 10 (including runoff) to TDF WTP Batched		Contact Water	Active		54.50	240	48.0	8	HDPE	88	0		24.0	30.0	600	0	0.3
65	Years 50-100 - From Pond 7 (including runoff) to TDF WTP Batched		Contact Water	Active		54.50	240	48.0	12	HDPE	88	0		24.0	30.0	600	0	0.3
66	Years 50-100 - From Pond 7 Underdrain to Pond 7/10		Contact Water	Active		14.00	180	36.0	6	HDPE	88	0		24.0	30.0	36	0	0.3
67	Years 50-100 - From WW 14 (WW A + WW 3) to Pond 7/10		Contact Water	Active		14.00	350	70.0	8	HDPE	88	0		24.0	30.0	600	0	0.3
68	Years 50-100 - From WW 12 to Pond 7/10		Contact Water	Active		8.00	350	70.0	8	HDPE	88	0		24.0	30.0	600	0	0.3

3/24/2026 1: k (total of all losses related to valves, restrictions, etc.). Typically 8 -20. Not significant for longer pipes.
Copyright © 2004 - 2024 Default crew assumes crew of two laborers required during pumping hours
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Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 20260324.xlsm
Model Version: Version 1.4.1
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Assumed crew same as for water treatment
Assumed use of grid power until end of Year 10 followed by diesel generation requiring override in Column R going forward.

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - User Input - Forced Evaporation															Operating Period		
	Description (required)	ID Code	Water Type (select)	Management Type (select)	Forced Evaporation Method (select)	Capital Cost \$	Flow (Q) gpm	Pipeline Length ft	Static Head ft	Pipe Diameter (ID) in	Pipe Material (select)	Pump Efficiency %	Total Concentrated Losses ⁽²⁾	Required Pressure at Outlet psi	Hrs/Day	Days/Month	Number of Months

Notes: 1. Default crew assumes crew of two laborers required during pumping hours
3. Assumes 1-1.5 ton truck for every 2 laborers

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - Water Treatment												
											Operating Period	
	Description (required)	ID Code	Water Type (select)	Treatment Type (select)	Treatment Method	Montly Quantity gal	Treatment Labor Crew Size per Shift	Capital Cost \$	Consumable Cost/ gal \$	Treatment Operating Cost/gal \$	Number of Months	Hour per Day
1	Year 0		Other Water	Active		35,434,200	0	\$91,345	\$0.00		12.0	
2	Year 1		Other Water	Active		35,828,400	0	\$91,345	\$0.00		12.0	
3	Year 2		Other Water	Active		35,828,400	0	\$91,345	\$0.00		12.0	
4	Year 3		Other Water	Active		35,828,400	0	\$91,345	\$0.00		12.0	
5	Years 4-10		Other Water	Active		9,154,200	0	\$639,414	\$0.00		84.0	
6	Years 11-50		Other Water	Active		3,460,200	0	\$3,653,796	\$0.00		480.0	
7	Years 51-100		Other Water	Active		4,774,200	0	\$4,567,244	\$0.00		600.0	

- Notes:
1. Use pumping section (above) to calculate pumping costs (including groundwater pumping).
 2. Include initial materials (e.g. chemicals, organic substrate, etc.) in capital cost.
 3. Treatment crew includes 1 foreman (crew defined by user above), 1 light truck if crew size > 0
 4. Assumes active treatment crew works 8 hr/day, 365 days/year.
 5. Assumes 1 truck per each two employees per shift

Treatment reagent cost \$ per gal (not rounded to two decimals): 0.000178983
Backup calculations in User 4.

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - User Input - Decontamination																	
														Operating Period		User Overrides	
	Description (required)	ID Code	Management Type (select)	Type	Disposal Location	Capital Cost \$	Pumping Flow (Q) gpm	Pipeline Length ft	Static Head ft	Pipe Diameter (ID) in	Pipe Material (select)	Pump Efficiency %	Total Concentrated Losses ⁽¹⁾	Number of Work Days days	Pumping Hrs/Day	Crew Size	Power Cost (\$/kWh)

- Notes:
- 1. Assumes triple rinse of all piping, tanks and vessels requiring decontamination
 - 2. Standard crew includes 2 laborers and 1 foreman
 - 3. Assumes 1-1.5 ton truck for every 2 laborers
 - 4. Assumes crew works 8 hr/day



Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Manning's Roughness Coefficient		Water Treatment Costs	
Pipe material	Manning n	Water treatment cost = CapEx + Labor Cost + Equipment Cost (includes Operating Cost) CapEx = User Entered Value Consumable costs = cost of treatment chemicals or materials based quantity treated Labor Cost = No. Months x Days/mo. x [(Supervisor Cost x 8 hrs) + (Laborer Cost x Crew Size x Hours/day)] Operating Cost = Fuel, power, maintenance or other costs calculated based on quantity treated Equipment Cost = No. Months x Days/mo. x [(Supervisor Truck Cost x 8 hrs) + (Labor Truck Cost x No. Crew Trucks x Hours/day)] No. Crew Trucks = 1 per each two laborers per shift	
HDPE			
ID < 4" (100 mm)	0.011		
ID ≥ 4 in (100 mm) < 10 in (250 mm)	0.01		
ID ≥ 10 in (250 mm)	0.009		
PVC			
ID < 4" (100 mm)	0.011		
ID ≥ 4 in (100 mm) < 10 in (250 mm)	0.01		
ID ≥ 10 in (250 mm)	0.009		
Brass	0.011		
Cast Iron	0.013		
Smooth Steel	0.012		
Asbestos Cement	0.011		

Closure Cost Estimate Solution Mgmt

Solution/Water Management - Cost Summary

	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0	\$0	\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0	\$0	\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - Pumping

	Description (required)	Flow gpm	Manning n (see above)	Losses k	Velocity ft/sec	Friction Head ft	Total Dynamic Head ft	Pump Efficiency %	Power Required kW	Horsepower Required HP	Monthly Operating Hours	Pump Capital Cost \$	Total Operating Cost \$	Total Labor Cost \$	Total Crew Equipment Cost \$	Total Cost \$	Cost/ m3 \$
1	Holding Year (Year 0) - From Main Sump (el 950/890")	30.00	0.010	0	0.008	0	10	88	0.06	1	720	\$0	\$72	\$0	\$0	\$72	\$0.00
2	Holding Year (Year 0) - From A Pond (el 900/838", crest)	448.00	0.010	0	0.031	15	24	88	2.34	4	720	\$0	\$3,036	\$0	\$0	\$3,036	\$0.00
3	Holding Year (Year 0) - From B Pond Sump (el 890/826")	100.00	0.010	0	0.027	1	21	88	0.45	1	720	\$0	\$588	\$0	\$0	\$588	\$0.00
4	Holding Year (Year 0) - From C Pond (el 850/796") to 23	7.00	0.010	0	0.001	0	96	88	0.14	1	720	\$0	\$180	\$0	\$0	\$180	\$0.01
5	Holding Year (Year 0) - From D Pond (el 810/752") to 23	129.00	0.009	0	0.004	0	70	88	1.93	3	720	\$0	\$2,496	\$0	\$0	\$2,496	\$0.01
6	Holding Year (Year 0) - From 23 Pond (el 878/822") to 23	138.00	0.010	0	0.010	0	0	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
7	Holding Year (Year 0) - From 23 Pond Pump Station (el 878/822") to 23	558.00	0.010	0	0.038	22	32	88	3.81	6	720	\$0	\$4,932	\$0	\$0	\$4,932	\$0.00
8	Holding Year (Year 0) - From Cannery Creek Potable (el 174") to Haw	1.00	0.010	0	0.000	0	10	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
9	Holding Year (Year 0) - From Hawk Inlet Water Bldg (el 120") to Haw	1.00	0.010	0	0.000	0	10	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
10	Holding Year (Year 0) - From Hawk Inlet Lift Station (el 18") to Sewa	1.00	0.010	0	0.000	0	62	88	0.01	1	720	\$0	\$12	\$0	\$0	\$12	\$0.01
11	Holding Year (Year 0) - From Sewage Treatment Plant (el 80") to DB-04	1.00	0.010	0	0.000	0	10	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
12	Holding Year (Year 0) - From Seeps (4) (el 18") to DB-04	1.00	0.011	0	0.001	0	20	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
13	Holding Year (Year 0) - From Herman's Gulch Sump (el 24") to DB-04	2.00	0.010	0	0.000	0	15	88	0.01	1	720	\$0	\$12	\$0	\$0	\$12	\$0.00
14	Holding Year (Year 0) - From DB-04 (el 24") to Pond 7 via west ditch	33.00	0.010	0	0.002	0	160	88	1.13	2	720	\$0	\$1,464	\$0	\$0	\$1,464	\$0.02
15	Holding Year (Year 0) - From Pond 10 (bottom el 120") to Pond 7	28.00	0.010	0	0.002	0	25	88	0.15	1	720	\$0	\$192	\$0	\$0	\$192	\$0.00
16	Holding Year (Year 0) - From Pond 10 Underdrain WW 11 (el 115") to	15.00	0.010	0	0.001	0	31	88	0.10	1	720	\$0	\$132	\$0	\$0	\$132	\$0.00
17	Holding Year (Year 0) - From WW A (el 132") to Pond 7 - via WW 14	146.00	0.010	0	0.010	0	8	88	0.25	1	720	\$0	\$324	\$0	\$0	\$324	\$0.00
18	Holding Year (Year 0) - From WW 5 (170") to Pond 11	8.00	0.010	0	0.001	0	16	88	0.03	1	720	\$0	\$36	\$0	\$0	\$36	\$0.00
19	Holding Year (Year 0) - From WW 3 (150") to Pond 7 via west ditch	2.00	0.010	0	0.000	0	10	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
20	Holding Year (Year 0) - From WW 12 S3P1 above liner (110") to Pond	8.00	0.010	0	0.001	0	30	88	0.05	1	720	\$0	\$360	\$0	\$0	\$360	\$0.00
21	Holding Year (Year 0) - From WW 13 S3P1 below liner (110") to Pond	70.00	0.010	0	0.005	0	30	88	0.45	1	720	\$0	\$576	\$0	\$0	\$576	\$0.00
22	Holding Year (Year 0) - From WW 15 S3P1 toe pumpback (113") to P	19.00	0.010	0	0.001	0	27	88	0.11	1	720	\$0	\$144	\$0	\$0	\$144	\$0.00
23	Holding Year (Year 0) - From Pond 7 (bottom el 122") to Pond 7	809.00	0.009	0	0.025	0	48	88	8.35	12	720	\$0	\$10,824	\$0	\$0	\$10,824	\$0.01
24	Holding Year (Year 0) - From Pond 7 Underdrain pumpback (el 110")	19.00	0.010	0	0.002	0	36	88	0.15	1	720	\$0	\$192	\$0	\$0	\$192	\$0.01
25	Holding Year (Year 0) - From 2500 GPM WTP (el 170") to Ha	809.00	0.009	0	0.018	0	10	88	1.78	3	720	\$0	\$2,304	\$0	\$0	\$2,304	\$0.00
26	Holding Year (Year 0) - From APDES Outfall (el 0") to Hawk Inlet	809.00	0.009	0	0.018	0	0	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
27	Years 1-3 - From A Pond (el 900/838", crest 846) to Pond	448.00	0.010	0	0.031	15	24	88	2.34	4	720	\$0	\$9,108	\$0	\$0	\$9,108	\$0.00
28	Years 1-3 - From B Pond Sump (el 890/826") to A Pond	100.00	0.010	0	0.027	1	21	88	0.45	1	720	\$0	\$1,764	\$0	\$0	\$1,764	\$0.00
29	Years 1-3 - From C Pond (el 850/796") to 23 Pond	7.00	0.010	0	0.001	0	96	88	0.14	1	720	\$0	\$540	\$0	\$0	\$540	\$0.01
30	Years 1-3 - From D Pond (el 810/752") to 23 Pond PS	129.00	0.009	0	0.004	0	70	88	1.93	3	720	\$0	\$7,488	\$0	\$0	\$7,488	\$0.01
31	Years 1-3 - From 23 Pond (el 878/822") to 23 Pond PS	138.00	0.010	0	0.010	0	0	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
32	Years 1-3 - From 23 Pond Pump Station (el 878/822") to 23	558.00	0.010	0	0.038	22	32	88	3.81	6	720	\$0	\$14,796	\$0	\$0	\$14,796	\$0.00
33	Years 1-3 - From Cannery Creek Potable (el 174") to Haw	5.00	0.010	0	0.001	0	10	88	0.01	1	720	\$0	\$36	\$0	\$0	\$36	\$0.00
34	Years 1-3 - From Hawk inlet Water Bldg (el 120") to Haw	5.00	0.010	0	0.001	0	10	88	0.01	1	720	\$0	\$36	\$0	\$0	\$36	\$0.00
35	Years 1-3 - From Hawk inlet Lift Station (el 18") to Sewa	5.00	0.010	0	0.001	0	62	88	0.07	1	720	\$0	\$288	\$0	\$0	\$288	\$0.01
36	Years 1-3 - From Sewage Treatment Plant (el 80") to DB-04	1.00	0.010	0	0.000	0	10	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
37	Years 1-3 - From Seeps (4) (el 18") to DB-04	1.00	0.011	0	0.001	0	20	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
38	Years 1-3 - From Herman's Gulch Sump (el 24") to DB-04	2.00	0.010	0	0.000	0	15	88	0.01	1	720	\$0	\$36	\$0	\$0	\$36	\$0.00
39	Years 1-3 - From DB-04 (el 24") to Pond 7 via west ditch	33.00	0.010	0	0.002	0	160	88	1.13	2	720	\$0	\$4,392	\$0	\$0	\$4,392	\$0.02
40	Years 1-3 - From Cannery Creek Withdrawal (el 174") to Pond	35.00	0.010	0	0.010	1	110	88	0.83	2	720	\$0	\$3,240	\$0	\$0	\$3,240	\$0.00
41	Years 1-3 - From Pond 10 (bottom el 120") (including run	28.00	0.010	0	0.002	0	25	88	0.15	1	720	\$0	\$576	\$0	\$0	\$576	\$0.00
42	Years 1-3 - From Pond 10 Underdrain WW 11 (el 115") to	15.00	0.010	0	0.001	0	31	88	0.10	1	720	\$0	\$396	\$0	\$0	\$396	\$0.00
43	Years 1-3 - From WW A (el 132") to Pond 7 - via WW 14	146.00	0.010	0	0.010	0	8	88	0.25	1	720	\$0	\$972	\$0	\$0	\$972	\$0.00
44	Years 1-3 - From WW 5 (170") to Pond 11	8.00	0.010	0	0.001	0	16	88	0.03	1	720	\$0	\$108	\$0	\$0	\$108	\$0.00
45	Years 1-3 - From WW 3 (150") to Pond 7 via west ditch	2.00	0.010	0	0.000	0	10	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
46	Years 1-3 - From WW 12 S3P1 above liner (110") to Pond	8.00	0.010	0	0.001	0	30	88	0.05	1	720	\$0	\$180	\$0	\$0	\$180	\$0.00
47	Years 1-3 - From WW 13 S3P1 below liner (110") to Pond	70.00	0.010	0	0.005	0	30	88	0.45	1	720	\$0	\$1,764	\$0	\$0	\$1,764	\$0.00
48	Years 1-3 - From WW 15 S3P1 toe pumpback (113") to P	19.00	0.010	0	0.001	0	27	88	0.11	1	720	\$0	\$432	\$0	\$0	\$432	\$0.00
49	Years 1-3 - From Pond 7 (including runoff) to TDF WTP	818.00	0.009	0	0.025	0	48	88	8.45	12	720	\$0	\$32,868	\$0	\$0	\$32,868	\$0.01
50	Years 1-3 - From Pond 7 Underdrain pumpback (el 110")	19.00	0.010	0	0.002	0	36	88	0.15	1	720	\$0	\$576	\$0	\$0	\$576	\$0.01
51	Years 1-3 - From 2500 GPM WTP (el 170") to APDES Out	818.00	0.009	0	0.018	0	10	88	1.81	3	720	\$0	\$7,020	\$0	\$0	\$7,020	\$0.00
52	Years 1-3 - From APDES Outfall (el 0") to Hawk Inlet	818.00	0.009	0	0.018	0	0	88	0.00	0	720	\$0	\$0	\$0	\$0	\$0	\$0.00
53	Years 4-10 - From D Pond (el 810/752") to Pond 7	120.00	0.009	0	0.005	0	70	88	1.80	3	720	\$0	\$16,296	\$0	\$0	\$16,296	\$0.01
54	Years 4-10 - From Pond 10 to TDF WTP Batched	13.00	0.010	0	0.001	0	48	88	0.13	1	720	\$0	\$1,176	\$0	\$0	\$1,176	\$0.01
55	Years 4-10 - From Pond 7 (including runoff) to TDF WTP	150.00	0.009	0	0.005	0	48	88	1.54	3	720	\$0	\$13,944	\$0	\$0	\$13,944	\$0.01
56	Years 4-10 - From Pond 7 Underdrain to Pond 7/10	19.00	0.010	0	0.002	0	36	88	0.15	1	720	\$0	\$1,344	\$0	\$0	\$1,344	\$0.01
57	Years 4-10 - From WW 14 (WW A + WW 3) to Pond 7/10	19.00	0.010	0	0.001	0	70	88	0.28	1	720	\$0	\$2,520	\$0	\$0	\$2,520	\$0.01
58	Years 4-10 - From WW 12 to Pond 7/10	8.00	0.010	0	0.001	0	70	88	0.12	1	720	\$0	\$1,092	\$0	\$0	\$1,092	\$0.01
59	Years 11-50 - From Pond 10 to TDF WTP Batched	39.50	0.010	0	0.003	0	13	88	0.11	1	720	\$0	\$11,520	\$0	\$0	\$11,520	\$0.00
60	Years 11-50 - From Pond 7 (including runoff) to TDF WTP	39.50	0.009	0	0.001	0	48	88	0.41	1	720	\$0	\$42,720	\$0	\$0	\$42,720	\$0.01
61	Years 11-50 - From Pond 7 Underdrain to Pond 7/10	14.00	0.010	0	0.002	0	36	88	0.11	1	720	\$0	\$864	\$0	\$0	\$864	\$0.01
62	Years 11-50 - From WW 14 (WW A + WW 3) to Pond 7/10	14.00	0.010	0	0.001	0	70	88	0.21	1	720	\$0	\$21,600	\$0	\$0	\$21,600	\$0.02
63	Years 11-50 - From WW 12 to Pond 7/10	8.00	0.010	0	0.001	0	70	88	0.12	1	720	\$0	\$12,480	\$0	\$0	\$12,480	\$0.02
64	Years 50-100 - From Pond 10 (including runoff) to TDF W	54.50	0.010	0	0.004	0	48	88	0.56	1	720	\$0	\$72,600	\$0	\$0	\$72,600	\$0.01
65	Years 50-100 - From Pond 7 (including runoff) to TDF W	54.50	0.009	0	0.002	0	48	88	0.56	1	720	\$0	\$72,600	\$0	\$0	\$72,600	\$0.01
66	Years 50-100 - From Pond 7 Underdrain to Pond 7/10	14.00	0.010	0	0.002	0	36	88	0.11	1	720	\$0	\$864	\$0	\$0	\$864	\$0.01
67	Years 50-100 - From WW 14 (WW A + WW 3) to Pond 7/10	14.00	0.010	0	0.001	0	70	88	0.21	1	720	\$0	\$27,000	\$0	\$0	\$27,000	\$0.02
68	Years 50-100 - From WW 12 to Pond 7/10	8.00	0.010	0	0.001	0	70	88	0.12	1	720	\$0	\$15,600	\$0	\$0	\$15,600	\$0.02
TOTALS												\$0	\$428,424	\$0	\$0	\$428,424	\$0.00

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Notes:
1. Assumes 2 man labor crew unless user overrides default.

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - Forced Evaporation																	
	Description (required)	Flow gpm	Manning n (see above)	Losses k	Velocity ft/sec	Friction Head ft	Total Dynamic Head ft	Pump Efficiency %	Power Required kW	Horsepower Required HP	Annual Operating Hours hrs	Evaporator/ Pump Capital Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Power Cost \$	Total Cost \$	Cost/ m3 \$
												\$0	\$0	\$0	\$0	\$0	

Notes:
1. Assumes 2 man labor crew unless user overrides default.

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - Water Treatment								
	Description (required)	Total Quantity Treated gal	Capital Cost \$	Total Consumables Cost \$	Total Labor Cost \$	Total Equipment + Operating Cost \$	Total Treatment Cost \$	Cost/ m3 \$
1	Year 0	425,210,400	\$91,345	\$76,106	\$0	\$20,966	\$188,416	\$0.000
2	Year 1	429,940,800	\$91,345	\$76,952	\$0	\$20,966	\$189,262	\$0.000
3	Year 2	429,940,800	\$91,345	\$76,952	\$0	\$20,966	\$189,262	\$0.000
4	Year 3	429,940,800	\$91,345	\$76,952	\$0	\$20,966	\$189,262	\$0.000
5	Years 4-10	768,952,800	\$639,414	\$137,630	\$0	\$146,759	\$923,803	\$0.000
6	Years 11-50	1,660,896,000	\$3,653,796	\$297,273	\$0	\$838,624	\$4,789,693	\$0.001
7	Years 51-100	2,864,520,000	\$4,567,244	\$512,701	\$0	\$1,048,280	\$6,128,225	\$0.001
		7,009,401,600	\$9,225,834	\$1,254,566	\$0	\$2,117,526	\$12,597,925	

Closure Cost Estimate
Solution Mgmt

Solution/Water Management - Cost Summary					
	Labor	Equipment + Operating + Power	Materials	Capital	Totals
Pumping	\$0	\$428,424	N/A	\$0	\$428,424
Forced Evaporation	\$0	\$0		\$0	\$0
Water Treatment	\$0	\$2,117,526	\$1,254,566	\$9,225,834	\$12,597,925
Decontamination	\$0	\$0		\$0	\$0
TOTALS	\$0	\$2,545,950	\$1,254,566	\$9,225,834	\$13,026,349

Solution/Water Management - Decontamination																
	Description (required)	Flow gpm	Manning n (see above)	Losses k	Velocity ft/sec	Friction Head ft	Total Dynamic Head ft	Pump Efficiency %	Power Required kW	Horsepower Required HP	Total Operating Hours hrs	Pump Capital Cost \$	Total Operating Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Cost \$
												\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Other User

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Other User Costs				
	Labor	Equipment	Materials & Capital	Totals
Other Cost Items	\$5,768,807	\$6,502,676	\$36,020,648	\$48,292,130

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

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
1	Lime purchase for short-lag disposal		Waste Mgmt & Disposal	4,999	tons		\$357.30			A. Earthwork	\$1,786,143	User 1 (quantity proportioned from total shortlag; lime cost adjusted for inflation)
2	Internal mill infrastructure demolition		Equipment Removal	2,916	hrs		\$0.00	\$628.61	\$199.63	D. Facility & Equipment	\$2,415,148	User 6 (mill demolition in Foundations and Buildings sheet)
3	Post-closure cover maintenance - Tailings		Tailings Impoundments	480	acres*ys		\$1,452.47	\$628.61	\$199.63	E. Monitoring	\$1,094,629	User 1
4	Outfall pipeline and facilities maintenance		Water Treatment - Other	1	ls				\$698,000.00	E. Monitoring	\$698,000	User 5
5	Various waste disposal		Waste Mgmt & Disposal	1	ls				\$934,076.98	C. Water Management	\$934,077	User 14
6	Bridge Demolition		Site Facilities - Structures	1	ls		\$0.00	\$142,354.36	\$76,742.14	D. Facility & Equipment	\$219,097	User 11
7	Monitoring		Monitoring/Regulatory Re	1	LS		\$5,827,034.79			E. Monitoring	\$5,827,035	See user 8
8	Marine demo		Equipment Removal	1	LS		\$398,732.72	\$308,601.40	\$346,400.82	D. Facility & Equipment	\$1,053,735	From Marine Demo 2008.xls; see User Sheet 3
9	Decontamination		Equipment Removal	1	LS		\$0.00	\$416,505.72	\$40,344.75	C. Water Management	\$456,850	User 14
10	Removal of miscellaneous linear items (1 backhoe+2 laborers)		Equipment Removal	243	hrs			\$713.44	\$312.96	D. Facility & Equipment	\$249,415	Assume two weeks.
11	Utilization of underground equipment for disposal		UG Mine	1	LS			\$719,005.52	\$952,233.64	A. Earthwork	\$1,671,239	User 1
12	Small crossings over Zinc and Greens Creek bridge locations		Other Facilities	100	sf		\$84.39	\$160.62	\$19.72	F. Construction Mgmt	\$26,473	User 10
13	Excavator for residual and short-lag material		Waste Rock Dump	4,171	hrs		\$84.83		\$92.66	A. Earthwork	\$740,253	Total CY divided by corrected productivity for 345B on Productivity sheet
14	Reconfiguration pumps and pipes		H2O Treat Sys Constr - Ac	486	hrs	\$126,908		\$628.61	\$199.63	C. Water Management	\$529,433	Utilizes User Crew 3: two laborers, 1 backhoe, and 1 pipewelder for a quarter of the time
15	Demolish WTP		H2O Treat Sys Constr - Ac	1	ls			\$24,239.64	\$18,448.45	D. Facility & Equipment	\$42,688	User 6
16	Tailings Material deficit		Stockpile	231,594	cy		\$50.00			A. Earthwork	\$11,579,694	User 7
17	Drain Material		Off Site Facilities	129,053	cy		\$50.00			A. Earthwork	\$6,452,661	Purchase of drain rock for closure cover on tailings
18	Mob-demob		Access Road	1	LS				\$962,977.11	Mob/Demob	\$962,977	User 2
19	Pipe for water collection from Pond D		Other Facilities	10,560	ft		\$4.54	\$9.58	\$2.50	C. Water Management	\$175,507	2 miles of piping e-mail January 20, 2014 Chris Wallace. No change in quantity, costs updated- 2025.
20	WTP replacement - every 50 years		Water Treatment - Contac	1	LS	\$8,883,582				C. Water Management	\$8,883,582	
21	Pond cleaning - every 50 years		Ponds	151,589	sf				\$5.77	C. Water Management	\$875,324	Cost from Brian Erickson email February 03, 2014 and adjusted for inflation; timing assumed to coincide with WTP removal. Only for Pond 7 per previous assumptions on use.
22	Pond relining - every 50 years		Ponds	303,421	sf		\$0.70	\$1.58	\$0.19	C. Water Management	\$749,449	Relining ponds; area from Process Ponds. Only for Pond 7 per previous assumptions on use.
23	Guardrail removal		Project Road	1	lf			\$594,071.84	\$274,648.17	D. Facility & Equipment	\$868,720	Removing guardrail from roads - A, B, and 1350
						\$9,010,491	\$27,010,157	\$5,768,807	\$6,502,676			\$48,292,130

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).
Transporting pipes to Hawk Inlet: 8 miles of pipe divided into 40 ft pieces, 6 pieces hauled at a time = 176 trips; 1 trip takes approximately 1 hr
Assumed construction of two pedestrian crossings at 4'W and 80'L in place of the two bridges demolished.

Closure Cost Estimate Closure Planning

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Plan Management	
	Totals
Technical Studies	\$0
Engineering	\$0
Permitting	\$0
TOTALS	\$0

Closure Plan Studies and Reporting					
	Description (required)	ID Code	Type (select type)	Total Cost \$	Comments
				\$0	

Notes:

Closure Cost Estimate Closure Planning

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO **Cost Basis:** Greens Creek - March 2026

Closure Plan Management	
	Totals
Technical Studies	\$0
Engineering	\$0
Permitting	\$0
TOTALS	\$0

Closure Plan Engineering					
	Description (required)	ID Code	Type (select type)	Total Cost \$	Comments
				\$0	

Notes:

Closure Cost Estimate Closure Planning

Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1
 Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Plan Management	
	Totals
Technical Studies	\$0
Engineering	\$0
Permitting	\$0
TOTALS	\$0

Closure Plan Permitting					
	Description (required)	ID Code	Type (select type)	Total Cost \$	Comments
				\$0	

Notes:

Closure Cost Estimate
G & A

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

General & Administration	
	Totals
Property Holding Costs	\$0
Security & Maintenance	\$0
Administration	\$11,903,288
TOTALS	\$11,903,288

Property Holding Costs								
	Description (required)	ID Code	Type (select type)	Frequency (select type)	Cost/ Payment \$	Number of Payments	Total Cost \$	Comments
							\$0	

Notes:

Closure Cost Estimate
G & A

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

General & Administration	
	Totals
Property Holding Costs	\$0
Security & Maintenance	\$0
Administration	\$11,903,288
TOTALS	\$11,903,288

Security and Maintenance								
	Description (required)	ID Code	Type (select type)	Frequency (select type)	Cost/ Payment \$	Number of Payments	Total Cost \$	Comments
1							\$0	
							\$0	

Notes:

Closure Cost Estimate
G & A

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

General & Administration	
	Totals
Property Holding Costs	\$0
Security & Maintenance	\$0
Administration	\$11,903,288
TOTALS	\$11,903,288

Administration								
	Description (required)	ID Code	Type (select type)	Frequency (select type)	Cost/ Payment \$	Number of Payments	Total Cost \$	Comments
1	Camp support		Camp Lodging	Other	\$1,886,558	1	\$1,886,558	User 5
2	Power costs - camp		Electric power	Other	\$616,923	1	\$616,923	User 5
3	Power costs - ventilation		Electric power	Other	\$143,550	1	\$143,550	User 5
4	Transportation		Material/Goods Transport		\$1,767,963	1	\$1,767,963	User 5
5	Landing craft for materials/equip costs		Material/Goods Transport		\$5,502,000	1	\$5,502,000	User 5
6	Meals for WTP, Montioring, and Laborer crews		Material/Goods Transport		\$1,986,294	1	\$1,986,294	User 5
							\$11,903,288	

Notes:

Closure Cost Estimate
Human Resources

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Human Resources	
	Totals
Salaries & Benefits	\$11,755,927
Severance & Relocation	\$0
TOTALS	\$11,755,927

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

Human Resources - Salary & Benefits																							
	Job Description (required)	Avg. Annual Salary (incl. benefits) \$	Type	Closure Year 1 #	Closure Year 2 #	Closure Year 3 #	Closure Year 4 #	Closure Year 5 #	Closure Year 6 #	Closure Year 7 #	Closure Year 8 #	Closure Year 9 #	Closure Year 10 #	Closure Year 11 #	Closure Year 12 #	Closure Year 13 #	Closure Year 14 #	Closure Year 15 #	Closure Year 16 #	Closure Year 17 #	Closure Year 18 #	Closure Year 19 #	Closure Year 20 #
1	Holding crew	\$224,139	Closure G & A	2																			
2	Hourly - Tech 5	\$224,139	Closure G & A		2	2	2																
3	Crew for monit sched A	\$304,668	Closure G & A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Crew for monit sched B	\$35,154	Closure G & A	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
5	Y0 crew - foreman	\$317,813	Water Treatment - Other	1																			
6	Y0 crew - laborer	\$327,887	Water Treatment - Other	1																			
7	Y1-3 crew - laborer	\$327,887	Water Treatment - Other		1	1	1																
8	Y4-10 WTP crew - foreman	\$47,019	Water Treatment - Other					1	1	1	1	1	1	1									
9	Y4-10 WTP crew - laborer	\$48,509	Water Treatment - Other					1	1	1	1	1	1	1									
10	Y11-15 WTP crew - foreman	\$26,122	Water Treatment - Other												1	1	1	1	1				
11	Y11-15 WTP crew - laborer	\$26,950	Water Treatment - Other												1	1	1	1	1				
12	Y16-50 WTP crew - foreman	\$26,122	Water Treatment - Other																	1	1	1	1
13	Y16-50 WTP crew - laborer	\$26,950	Water Treatment - Other																	1	1	1	1
14	Y51-100 WTP crew - foreman	\$34,829	Water Treatment - Other																				
15	Y51-100 WTP crew - laborer	\$35,933	Water Treatment - Other																				
SUBTOTAL				\$ 1,398,646	\$ 1,080,833	\$ 1,080,833	\$ 1,080,833	\$ 400,196	\$ 400,196	\$ 130,682	\$ 130,682	\$ 130,682	\$ 130,682	\$ 130,682	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072

Notes:
Closure Year 1 is the Holding Year
Costs for water treatment crew are for contracting to start up, batch operate, and shut down the water treatment plant at frequencies required in the years in corresponding interval.
Costs for monitoring crew (schedules A and B) include one field tech and one laborer contracted time to travel to site and sample.
Batching days: See User 4 for calculation.

Closure Cost Estimate
Human Resources

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Human Resources																								
		Totals																						
Salaries & Benefits		\$11,755,927																						
Severance & Relocation		\$0																						
TOTALS		\$11,755,927																						
Human Resources - Severance & Outplacement Benefits																								
	Job Description	Severance & Outplacement Cost \$		Closure Year 1 #	Closure Year 2 #	Closure Year 3 #	Closure Year 4 #	Closure Year 5 #	Closure Year 6 #	Closure Year 7 #	Closure Year 8 #	Closure Year 9 #	Closure Year 10 #	Closure Year 11 #	Closure Year 12 #	Closure Year 13 #	Closure Year 14 #	Closure Year 15 #	Closure Year 16 #	Closure Year 17 #	Closure Year 18 #	Closure Year 19 #	Closure Year 20 #	
1	Holding crew			2.0																				
2	Hourly - Tech 5						2.0																	
3	Crew for monit sched A								1.0															
4	Crew for monit sched B													1.0										
5	Y0 crew - foreman			1.0																				
6	Y0 crew - laborer			1.0																				
7	Y1-3 crew - laborer						1.0																	
8	Y4-10 WTP crew - foreman													1.0										
9	Y4-10 WTP crew - laborer													1.0										
10	Y11-15 WTP crew - foreman																		1.0					
11	Y11-15 WTP crew - laborer																		1.0					
12	Y16-50 WTP crew - foreman																							
13	Y16-50 WTP crew - laborer																							
14	Y51-100 WTP crew - foreman																							
15	Y51-100 WTP crew - laborer																							
SUBTOTAL			\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

Notes:
1. Assumes Severance + Outplacement

Closure Cost Estimate
Human Resources

Closure Year 21 #	Closure Year 22 #	Closure Year 23 #	Closure Year 24 #	Closure Year 25 #	Closure Year 26 #	Closure Year 27 #	Closure Year 28 #	Closure Year 29 #	Closure Year 30 #	Closure Year 31 #	Closure Year 32 #	Closure Year 33 #	Closure Year 34 #	Closure Year 35 #	Closure Year 36 #	Closure Year 37 #	Closure Year 38 #	Closure Year 39 #	Closure Year 40 #
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
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
\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072

Closure Cost Estimate
Human Resources

Closure Year 21 #	Closure Year 22 #	Closure Year 23 #	Closure Year 24 #	Closure Year 25 #	Closure Year 26 #	Closure Year 27 #	Closure Year 28 #	Closure Year 29 #	Closure Year 30 #	Closure Year 31 #	Closure Year 32 #	Closure Year 33 #	Closure Year 34 #	Closure Year 35 #	Closure Year 36 #	Closure Year 37 #	Closure Year 38 #	Closure Year 39 #	Closure Year 40 #
																		1.0	
																		1.0	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Closure Cost Estimate
Human Resources

Closure Year 41 #	Closure Year 42 #	Closure Year 43 #	Closure Year 44 #	Closure Year 45 #	Closure Year 46 #	Closure Year 47 #	Closure Year 48 #	Closure Year 49 #	Closure Year 50 #	Closure Year 51 #	Closure Year 52 #	Closure Year 53 #	Closure Year 54 #	Closure Year 55 #	Closure Year 56 #	Closure Year 57 #	Closure Year 58 #	Closure Year 59 #	Closure Year 60 #
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
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
\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 53,072	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762

Closure Cost Estimate
Human Resources

Closure Year 41 #	Closure Year 42 #	Closure Year 43 #	Closure Year 44 #	Closure Year 45 #	Closure Year 46 #	Closure Year 47 #	Closure Year 48 #	Closure Year 49 #	Closure Year 50 #	Closure Year 51 #	Closure Year 52 #	Closure Year 53 #	Closure Year 54 #	Closure Year 55 #	Closure Year 56 #	Closure Year 57 #	Closure Year 58 #	Closure Year 59 #	Closure Year 60 #
										1.0									
										1.0									
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Closure Cost Estimate
Human Resources

Closure Year 61 #	Closure Year 62 #	Closure Year 63 #	Closure Year 64 #	Closure Year 65 #	Closure Year 66 #	Closure Year 67 #	Closure Year 68 #	Closure Year 69 #	Closure Year 70 #	Closure Year 71 #	Closure Year 72 #	Closure Year 73 #	Closure Year 74 #	Closure Year 75 #	Closure Year 76 #	Closure Year 77 #	Closure Year 78 #	Closure Year 79 #	Closure Year 80 #
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
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
\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762

Closure Cost Estimate
Human Resources

Closure Year 61 #	Closure Year 62 #	Closure Year 63 #	Closure Year 64 #	Closure Year 65 #	Closure Year 66 #	Closure Year 67 #	Closure Year 68 #	Closure Year 69 #	Closure Year 70 #	Closure Year 71 #	Closure Year 72 #	Closure Year 73 #	Closure Year 74 #	Closure Year 75 #	Closure Year 76 #	Closure Year 77 #	Closure Year 78 #	Closure Year 79 #	Closure Year 80 #
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Closure Cost Estimate
Human Resources

Closure Year 81 #	Closure Year 82 #	Closure Year 83 #	Closure Year 84 #	Closure Year 85 #	Closure Year 86 #	Closure Year 87 #	Closure Year 88 #	Closure Year 89 #	Closure Year 90 #	Closure Year 91 #	Closure Year 92 #	Closure Year 93 #	Closure Year 94 #	Closure Year 95 #	Closure Year 96 #	Closure Year 97 #	Closure Year 98 #	Closure Year 99 #	Closure Year 100 #	Totals \$
																				\$448,278
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$1,344,834
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$1,828,008
																				\$175,770
																				\$317,813
																				\$327,887
																				\$983,661
																				\$329,133
																				\$339,563
																				\$130,610
																				\$134,750
																				\$914,270
																				\$943,250
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	\$1,741,450
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	\$1,796,650
\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 70,762	\$ 141,524	\$11,755,927

Closure Cost Estimate
Human Resources

Closure Year 81 #	Closure Year 82 #	Closure Year 83 #	Closure Year 84 #	Closure Year 85 #	Closure Year 86 #	Closure Year 87 #	Closure Year 88 #	Closure Year 89 #	Closure Year 90 #	Closure Year 91 #	Closure Year 92 #	Closure Year 93 #	Closure Year 94 #	Closure Year 95 #	Closure Year 96 #	Closure Year 97 #	Closure Year 98 #	Closure Year 99 #	Closure Year 100 #	Totals \$
																		1.0		
																		1.0		
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0

**Closure Cost Estimate
Reclamation Quantities**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Data Cost File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Reclamation 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 Revegetation 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		\$ -	1,084,047	\$ 312,226		\$ -	95.99	\$ -	\$ 184,352	\$ 496,578			N/A	\$0.29		\$0.00	\$5,173.23
2	Tailings Impoundments		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -			N/A				
3	Heap Leach Pads		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -			N/A				
5	Open Pits		\$ -							\$ -	\$ -			N/A				
4	Quarries & Borrow Pits		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -			N/A				
6	Roads	154,871	\$ 134,693			111,315	\$ 194,117	69	\$ -	\$ 132,515	\$ 461,325	\$0.87		N/A		\$1.74	\$0.00	\$6,685.87
7	Landfills		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -			N/A				
8	Buildings				\$ -		\$ -	21.9	\$ -	\$ -	\$ -			N/A			\$0.00	\$0.00
9	Yards	108,000	\$ 350,590		\$ -	63,726	\$ 89,102	214.5	\$ -	\$ 411,954	\$ 851,646	\$3.25		N/A		\$1.40	\$0.00	\$3,970.38
10	Ponds	196,355	\$ 265,717			12,681	\$ 18,236	8.6		\$ 15,201	\$ 299,154	N/A		\$1.35		\$1.44		\$34,785.35
11	Exploration Roads		\$ -				\$ -		\$ -	\$ -	\$ -			N/A				
12	Exploration Trenches		\$ -						\$ -	\$ -	\$ -			N/A				
13	Diversion Ditches		\$ -						\$ -	\$ -	\$ -			N/A				
14	Sediment Ponds		\$ -				\$ -		\$ -	\$ -	\$ -							
15	Generic Haulage/Backfill	2,915,288	\$ 17,223,697		\$ -		\$ -	3.7	\$ -	\$ -	\$ 17,223,697	N/A		\$5.91			\$0.00	#####
16	Adit/Decline Backfilling1		\$ -								\$ -			N/A				
17	Shaft Backfilling	110	\$ 5,131								\$ 5,131	N/A		\$46.65				
TOTALS		3,374,624	\$ 17,979,828	1,084,047	\$ 312,226	187,722	\$ 301,455	413.69	\$ -	\$ 744,022	\$ 19,337,531							
Average Costs		per CY	\$5.33	per CY	\$0.29	per CY	\$1.61	per acre	\$0.00		\$46,744	per acre						

Closure Cost Estimate
Exploration

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0		\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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

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

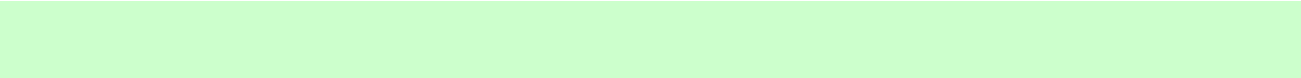
Closure Cost Estimate
Exploration

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0	\$0	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Trenches - User Input													
Facility Description			Trench Parameters					Backfill			Revegetation		
	Description (required)	ID Code	Trench Length ft	Trench Depth ft	Trench Bottom Width ft	Trench Sideslope Angle degrees	Additional Hrs for Walk-in ⁽¹⁾ hr	Backfill Material (select)	Cut Material Type (select)	Backfilling Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)

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



Closure Cost Estimate Exploration

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0	\$0	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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

Notes:

1. Assumes grout backfill from bottom of hole to 50' (15.24m) above static water level, up to 10' (3m) from top of hole
2. Assumes 25% loss to formation for grout backfill
3. If "Top Plug" hole plug method is used, assumes physical plug installed without backfill, grout or cement. Not available option for Nevada projects
4. Assumes top 10' (3 m) of hole is plugged with cement if "Grout Only", "Backfill + Grout", or "Cement Plug" hole plug method are chosen.
5. Assumes that a) casing is not cemented entire length, b) does not include temporary surface casing
6. Assumes minimum 1 hr per hole for abandonment (excluding move-to and casing removal)
7. Assumes fixed hours per hole for setup & tear-down and moving between holes (see Productivity Sheet) per drill hole (includes rig time if grouting required, labor crew only if cuttings backfill only)

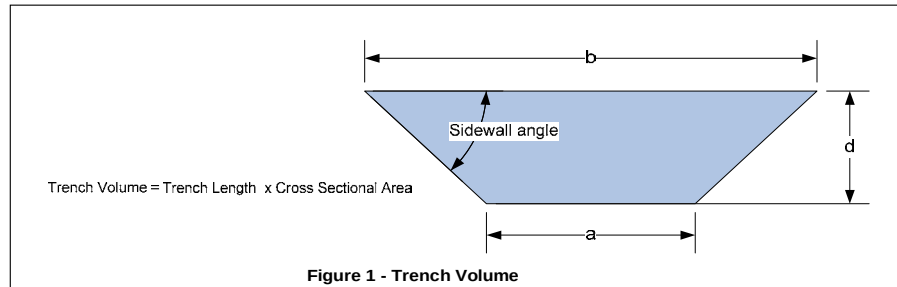
Closure Cost Estimate Exploration

Project Name: SRCE Update 2026 - Reclamation Plan
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 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0	\$0	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Trenches - Calculations

Exploration Trench Volume Calculation



Dozing & Ripping/Scarifying Calculations

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

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

**Closure Cost Estimate
Exploration**

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0	\$0	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Trenches - Backfill/Regrading Costs

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

	Description (required)	Trench Backfill Volume LCY (BCY+30%)	Dozer Push Distance ft	Equipment Productivity yd3/hr	Dozing Material	Density Correction	Backfilling Fleet	Corrected Hourly Productivity yd3/hr	Total Dozer Hours hr	Trench Backfill Labor Cost \$	Trench Backfill Equipment Cost \$	Total Trench Backfill Cost \$
										\$0	\$0	\$0

**Closure Cost Estimate
Exploration**

Project Name: SRCE Update 2026 - Reclamation Plan

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Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0		\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Trenches - Revegetation Costs						
	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
			\$0	\$0	\$0	\$0

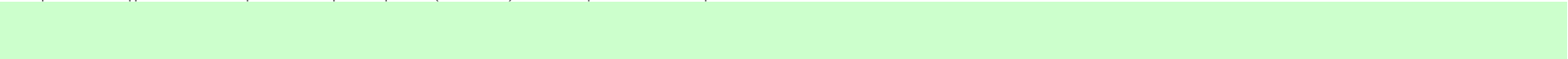
Closure Cost Estimate
Expl. Roads & Pads

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Roads & Pads - User Input																	
You must fill in ALL green cells and relevant blue cells in this section for each road																	
Facility Description			Physical (1) - MANDATORY										User Overrides		Growth Media		
Description (required)	ID Code	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Cut Slope degrees	Road + Drill Pad Length ft	Road Width ft	Number of Drill Pads	Individual Sump Volume cy	Drill Pad Width ft	Drill Pad Length ft	Slope Replacement Percent %	Regrade Volume (if calculated elsewhere) cy	Disturbed Area (if calculated elsewhere) acres	Growth Media Thickness in	Distance to Growth Media Stockpile ft	Slope from Road to Stockpile % grade	

- Notes:
- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
 - 2. Slope replacement refers to the percentage of cut volumn replaced during regrading.
 - 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 Productivity Sheet)
 - 4. Sump volume will be applied to all roads on slopes <20%. On slopes >20% pad width (i.e. cut volume) should be adequate to account for sump volume.



Closure Cost Estimate
Expl. Roads & Pads

Project Name: SRCE Update 2026 - Reclamation Plan
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File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Roads & Pads - 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)	Regrade Material Condition (select)	Cut Material Type (select)	Recontouring Equipment Fleet (select)	Additional Hrs for Walk-in ⁽¹⁾	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Additional Hrs for Walk-in ⁽¹⁾	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)

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

Closure Cost Estimate
Expl. Roads & Pads

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Roads & Pads - Calculations

Regrading Volume and Footprint Volume

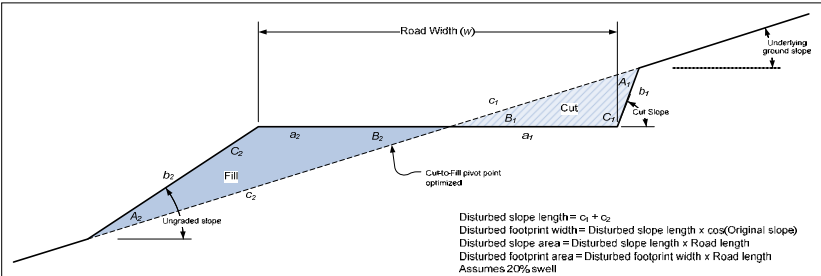


Figure 1 - Regrading Volume Calculation

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

Swell Factor: 1.2

Ripping/Scarifying Calculations

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

Revegetation Calculations

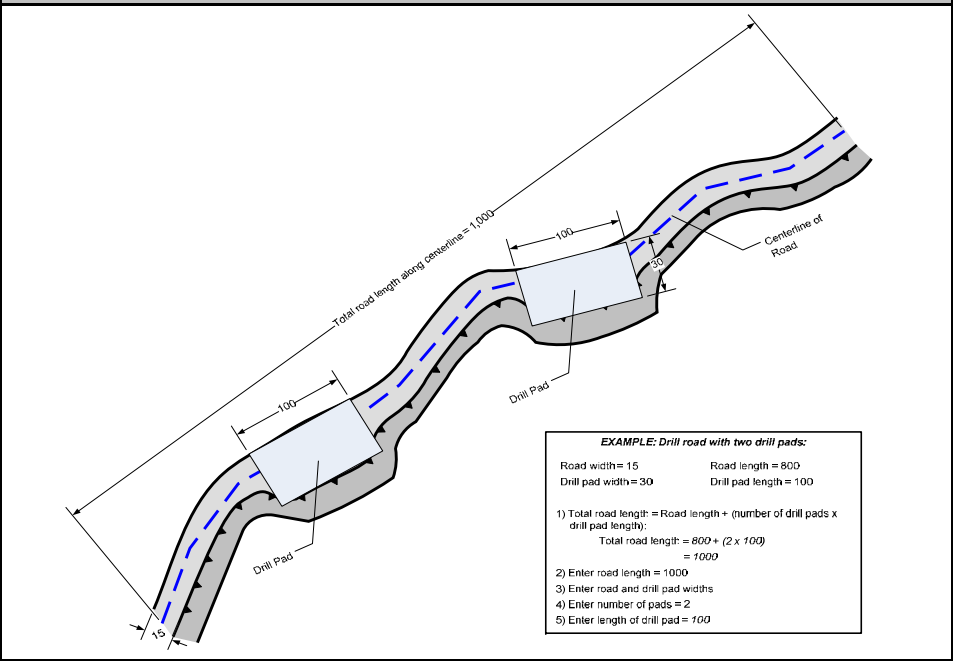
Minimum of 1 acre crew time per area

Closure Cost Estimate
Expl. Roads & Pads

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Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Inputting Exploration Roads and Drill Pads



Closure Cost Estimate
Expl. Roads & Pads

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Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Roads & Pads - Regrading Costs										
	Description (required)	Total Road Length ft	Total Drill Pad Length ft	Regrading Volume cy	Recontouring Fleet	Equipment Productivity cy/hr	Total Equipment Hours ⁽¹⁾ hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
								\$0	\$0	\$0

(1) Includes walk-in time based on distance and travel speed (see Productivity sheet for speeds)

Closure Cost Estimate
Expl. Roads & Pads

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Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Roads & Pads - Growth Media Costs									
	Description (required)	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
							\$0	\$0	\$0

Closure Cost Estimate
Expl. Roads & Pads

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Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0		\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Exploration Roads & Pads - Scarifying/Revegetation Costs										
	Description (required)	Surface Area acres	Ripping Hours hrs	Ripping Labor Costs \$	Ripping Equipment Cost \$	Total Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
				\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Waste Rock Dumps

Project Name: SRCE Update 2026 - Reclamation Plan
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File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$133,608	\$178,618	N/A	\$312,226
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Subtotal Earthworks	\$133,608	\$178,618	\$0	\$312,226
Revegetation Cost	\$0	\$1,875	\$182,477	\$184,352
TOTALS	\$133,608	\$180,493	\$182,477	\$496,578

Facility Description				Physical - MANDATORY										Cover				Growth Media			
	Description (required)	ID Code	Type	Underlying Ground Slope % Grade	Ungraded Slope H:1V	Final Slope H:1V	Final Top Slope % Grade	Lift (dump) Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance) ft	Final (Regraded) Dump Footprint acres	Regrade Volume (1) (if calculated elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Dump to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Dump to Stockpile % grade	
1	Area 1 - North East		Waste Rock Dump	0.0	3.0	3.0	0.0	180	516	400	4.47		84.0	84.0							
2	Area 2 - North		Waste Rock Dump	0.0	3.0	3.0	0.0	240	811	700	12.39		84.0	84.0							
3	Area 3 - Far North		Waste Rock Dump	0.0	3.0	3.0	0.0	150	389	400	4.23		84.0	84.0							
4	Area 4 - North West		Waste Rock Dump	0.0	3.0	3.0	0.0	180	849	500	5.63		84.0	84.0							
5	Area 5 - West		Waste Rock Dump	0.0	3.0	3.0	0.0	280	1,556	1,100	27.73		84.0	84.0							
6	Area 6 - South		Waste Rock Dump	0.0	3.0	3.0	0.0	200	832	700	10.02		84.0	84.0							
7	Area 7 - East		Waste Rock Dump	0.0	3.0	3.0	0.0	180	1,234	700	10.24		84.0	84.0							

- 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)

KCB - 20241220 - TR -PFS Closure Plan for the TDF Rev1.pdf

Closure Cost Estimate
Waste Rock Dumps

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Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$133,608	\$178,618	N/A	\$312,226
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Subtotal Earthworks	\$133,608	\$178,618	\$0	\$312,226
Revegetation Cost	\$0	\$1,875	\$182,477	\$184,352
TOTALS	\$133,608	\$180,493	\$182,477	\$496,578

Waste Rock Dumps - User Input (cont.)																			
You must fill in ALL green cells and relevant blue cells in this section for each dump, lift or dump category																			
		Grading				Cover		Growth Media		Revegetation									
	Description (required)	Dozing Material Condition (select)	Dump Material Type (select)	Grading Equipment Fleet (select)	Slot/Side-by- Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Seed Mix Slopes (select)	Seed Mix Flat Areas (select)	Mulch Slopes (select)	Mulch Flat Areas (select)	Fertilizer Slopes (select)	Fertilizer Flat Areas (select)	Slope Scarify/ Rip? (select)	Flat Area Scarify/ Rip? (select)	Scarify/ Ripping Fleet (select)	
1	Area 1 - North East	1	Alluvium	Small	No	LS - broken	Scraper Dozer			Mix 1	Mix 1								
2	Area 2 - North	1	Alluvium	Med	No	LS - broken	Tandem Scraper			Mix 1	Mix 1								
3	Area 3 - Far North	1	Alluvium	Small	No	LS - broken	Scraper Dozer			Mix 1	Mix 1								
4	Area 4 - North West	1	Alluvium	Small	No	LS - broken	Scraper Dozer			Mix 1	Mix 1								
5	Area 5 - West	1	Alluvium	Large	No	LS - broken	Tandem Scraper			Mix 1	Mix 1								
6	Area 6 - South	1	Alluvium	Med	No	LS - broken	Tandem Scraper			Mix 1	Mix 1								
7	Area 7 - East	1	Alluvium	Med	No	LS - broken	Tandem Scraper			Mix 1	Mix 1								

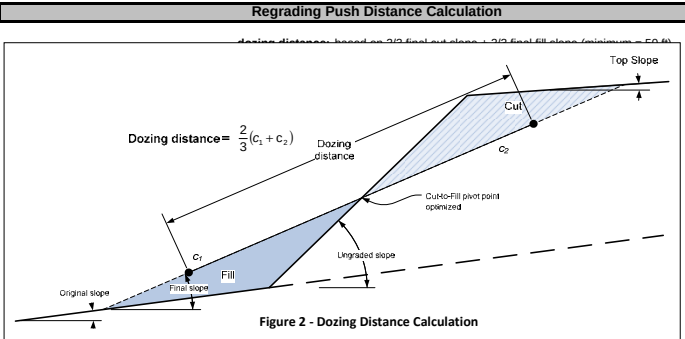
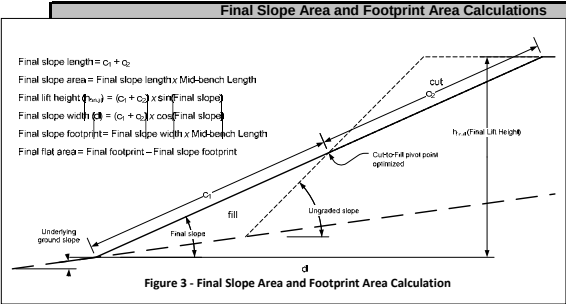
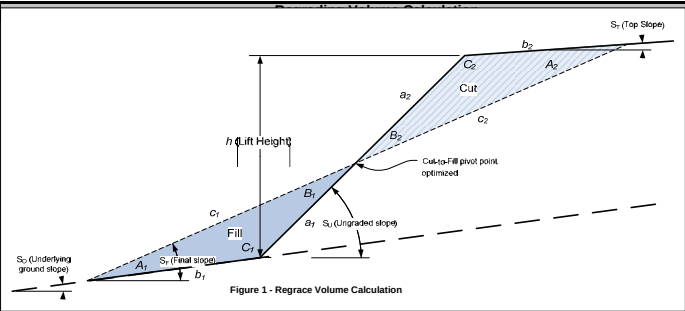
Notes:
1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Closure Cost Estimate
Waste Rock Dumps

Project Name: SRCE Update 2026 - Reclamation Plan
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Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$133,608	\$178,618	N/A	\$312,226
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$133,608	\$178,618	\$0	\$312,226
Revegetation Cost	\$0	\$1,875	\$182,477	\$184,352
TOTALS	\$133,608	\$180,493	\$182,477	\$496,578

Waste Rock Dumps - Calculations



Final Slope Area and Footprint Area Calculations

Final slope length = $C_1 + C_2$
Final slope area = Final slope length x Mid-bench Length
Final lift height (h_{final}) = $(C_1 + C_2) \times \sin(\text{final slope})$
Final slope width (W) = $(C_1 + C_2) \times \cos(\text{final slope})$
Final slope footprint = Final slope width x Mid-bench Length
Final flat area = Final footprint - Final slope footprint

Figure 3 - Final Slope Area and Footprint Area Calculation

Regrading Push Distance Calculation

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per dump

Slopes:

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

Flat Areas:

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

Revegetation: Minimum 1 acre revegetation crew time per area

Closure Cost Estimate
Waste Rock Dumps

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Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$133,608	\$178,618	N/A	\$312,226
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Subtotal Earthworks	\$133,608	\$178,618	\$0	\$312,226
Revegetation Cost	\$0	\$1,875	\$182,477	\$184,352
TOTALS	\$133,608	\$180,493	\$182,477	\$496,578

Waste Rock Dumps - Regrading Costs														
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)														
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	Area 1 - North East	0		D6R								\$0	\$0	\$0
2	Area 2 - North	0		D8R								\$0	\$0	\$0
3	Area 3 - Far North	0		D6R								\$0	\$0	\$0
4	Area 4 - North West	0		D6R								\$0	\$0	\$0
5	Area 5 - West	0		D10R								\$0	\$0	\$0
6	Area 6 - South	0		D8R								\$0	\$0	\$0
7	Area 7 - East	0		D8R								\$0	\$0	\$0
												\$0	\$0	\$0

Closure Cost Estimate
Waste Rock Dumps

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Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$133,608	\$178,618	N/A	\$312,226
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Subtotal Earthworks	\$133,608	\$178,618	\$0	\$312,226
Revegetation Cost	\$0	\$1,875	\$182,477	\$184,352
TOTALS	\$133,608	\$180,493	\$182,477	\$496,578

Waste Rock Dumps - Cover and Growth Media Costs																	
		Cover (lower layer)								Growth Media Placement							
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost \$	Cover Equipment Cost \$	Total Cover Cost \$	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoiling Cost \$
1	Area 1 - North East	76,117	Scraper Dozer	1,204	1	63	\$16,033	\$17,642	\$33,675						\$0	\$0	\$0
2	Area 2 - North	159,575	Tandem Scraper	2,626	2	61	\$15,524	\$23,144	\$38,668						\$0	\$0	\$0
3	Area 3 - Far North	47,771	Scraper Dozer	1,204	1	40	\$10,180	\$11,201	\$21,381						\$0	\$0	\$0
4	Area 4 - North West	125,243	Scraper Dozer	1,204	1	104	\$26,467	\$29,123	\$55,590						\$0	\$0	\$0
5	Area 5 - West	356,982	Tandem Scraper	2,626	2	136	\$34,611	\$51,600	\$86,211						\$0	\$0	\$0
6	Area 6 - South	136,311	Tandem Scraper	2,626	2	52	\$13,233	\$19,729	\$32,962						\$0	\$0	\$0
7	Area 7 - East	182,049	Tandem Scraper	2,626	2	69	\$17,560	\$26,179	\$43,739						\$0	\$0	\$0
		1,084,047				525	\$133,608	\$178,618	\$312,226						\$0	\$0	\$0

Closure Cost Estimate
Waste Rock Dumps

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Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$133,608	\$178,618	N/A	\$312,226
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Subtotal Earthworks	\$133,608	\$178,618	\$0	\$312,226
Revegetation Cost	\$0	\$1,875	\$182,477	\$184,352
TOTALS	\$133,608	\$180,493	\$182,477	\$496,578

Waste Rock Dumps - Scarifying/Revegetation Costs																
	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
1	Area 1 - North East	6.74		6.74	569					\$0	\$0	\$0	\$0	\$132	\$12,813	\$12,945
2	Area 2 - North	14.13		14.13	759					\$0	\$0	\$0	\$0	\$276	\$26,861	\$27,137
3	Area 3 - Far North	4.23		4.23	474					\$0	\$0	\$0	\$0	\$83	\$8,041	\$8,124
4	Area 4 - North West	11.09		11.09	569					\$0	\$0	\$0	\$0	\$216	\$21,082	\$21,298
5	Area 5 - West	31.61		31.61	885					\$0	\$0	\$0	\$0	\$617	\$60,091	\$60,708
6	Area 6 - South	12.07		12.07	632					\$0	\$0	\$0	\$0	\$236	\$22,945	\$23,181
7	Area 7 - East	16.12		16.12	569					\$0	\$0	\$0	\$0	\$315	\$30,644	\$30,959
		95.99		95.99							\$0	\$0	\$0	\$1,875	\$182,477	\$184,352

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.)

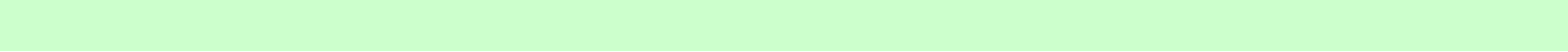
Closure Cost Estimate
Heap Leach

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Facility Description				Physical (1) - MANDATORY										Cover				Growth Media			
Description (required)	ID Code	Type	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Final Slope _H:1V	Final Top Slope % grade	Lift (heap) Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance) ft	Final (Regraded) Heap Footprint acres	Regrade Volume (if calculated elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Heap to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Material Stockpile ft	Slope from Heap to Stockpile % grade		

- 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)



Closure Cost Estimate
Heap Leach

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Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pads - User Input (cont.)		You must fill in ALL green cells and relevant blue cells in this section for each heap, lift or heap category																
		Grading				Cover		Growth Media		Revegetation								
Description (required)		Dozing Material Condition (select)	Heap Material Type (select)	Grading 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)	Scarifying/ Ripping Fleet (select)

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

Closure Cost Estimate
Heap Leach

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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pads - User Input (cont.)												
Solution Collection Ditch Fill									Piping			
	Description (required)	Collection Ditch Length ft	Collection Ditch Top Width ft	Collection Ditch Depth ft	Volume (if calculated elsewhere) cy	Distance from Borrow ft	Slope to Borrow % grade	Drain Rock Equipment Fleet (select)	Solid Pipe Length ft	Solid Pipe Type (select)	Drainage Pipe Length ft	Drainage Pipe Type (select)

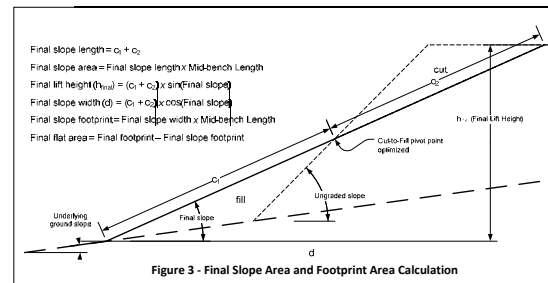
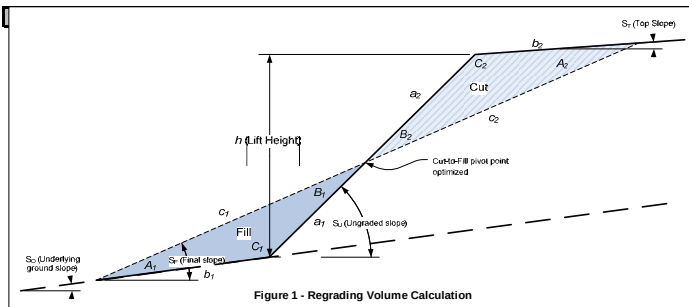
Notes:

Closure Cost Estimate Heap Leach

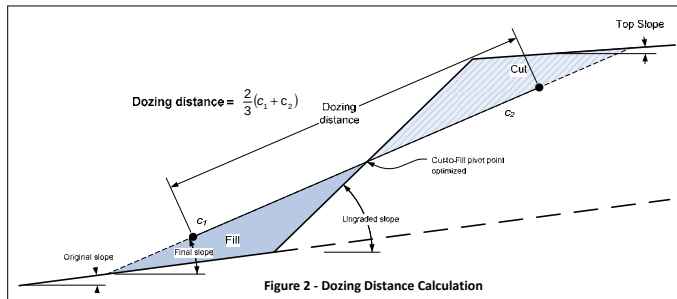
Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pads - Calculations

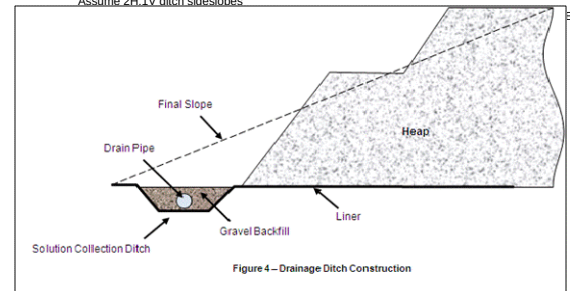


Regrading Push Distance Calculation



Solution Collection Ditch Calculations

Use when existing heap material is not suitable drain rock
Assume to be constructed in existing solution channels
Assume 2H:1V ditch sideslopes



Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying per area

Slopes:

Number of passes = Final slope length ÷ Grader width
Travel distance = Number of passes × Mid-bench length
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes × Grader maneuver time)

Flat Areas:

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

Revegetation: Minimum 1 acre revegetation crew time per area

Closure Cost Estimate
Heap Leach

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pad - Drainage Channel Fill & Drainage Pipe Installation														
		Drain Rock Placement								Drainpipe Installation				
	Description (required)	Drain Rock Volume cy	Drain Rock Fleet	Fleet Productivity LCY/Hr	Number of Trucks/ Scrapers	Total Fleet Hours hrs	Drainage Labor Cost \$	Drainage Equipment Cost \$	Total Drainage Cost \$	Piping Crew Hours hrs	Piping Labor Cost \$	Piping Equipment Cost \$	Piping Material Cost \$	Total Pipe Installation Cost \$
						0	\$0	\$0	\$0		\$0	\$0	\$0	\$0

Closure Cost Estimate
Heap Leach

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pad - Regrading Costs													
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)													
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$
												\$0	\$0
													\$0

Closure Cost Estimate
Heap Leach

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pad - Cover and Growth Media Costs																	
		Cover (lower layer)								Growth Media Placement							
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost \$	Cover Equipment Cost \$	Total Cover Cost \$	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoiling Cost \$
							\$0	\$0	\$0						\$0	\$0	\$0

Closure Cost Estimate
Heap Leach

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Heap Leach Pad - Scarifying/Revegetation Costs																
	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
										\$0	\$0	\$0	\$0	\$0	\$0	\$0

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.)

Bond Calculation
Tailings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - User Input																		
You must fill in ALL green cells and relevant blue cells in this section for each tailings impoundment																		
Facility Description			Physical - MANDATORY								Cover				Growth Media			
		Description (required)	ID Code	Underlying Ground Slope % Grade	Ungraded Slope _H:1V	Final (Regraded) Embankment Slope _H:1V	Final Embankment Height ft	Final Tailings Surface Area acres	Mid- Embankment or Ripping Length ft	Embankment Regrade Volume (if calculated elsewhere) cy	Surface Regrade Volume (calculated elsewhere) cy	Embankment Cover Thickness in	Tailings Surface Cover Thickness in	Distance from Cover Borrow ft	Slope from Tailings to Borrow % grade	Embankment Growth Media Thickness in	Tailings Surface Growth Media Thickness in	Distance from Growth Material Stockpile ft

- 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)

Bond Calculation
Tailings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - User Input (cont.)																	
You must fill in ALL green cells and relevant blue cells in this section for each tailings impoundment																	
		Grading				Cover		Growth Media		Revegetation							
Description (required)		Dozing Material Condition (select)	Embankment Material Type (select)	Grading 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 Embankment Slope (select)	Seed Mix Tailings Surface (select)	Mulch Embankment Slopes (select)	Mulch Tailings Surface (select)	Fertilizer Embankment Slopes (select)	Fertilizer Tailing Surface (select)	Embankment Slope Scarify/ Rip? (select)	Tailings Surface Scarify/ Rip? (select)

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

Bond Calculation
Tailings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - Calculations

Surface Area Calculations

Top Surface Area provided by user

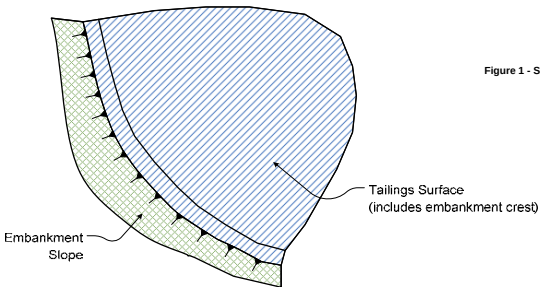


Figure 1 - Surface Areas

Grading Calculations

Grading assumed on impoundment surface only, not embankment
Average push distance assumed to be 2/3 of the 600 feet maximum from Caterpillar Handbook or 400 feet
Material assumed to be loose stockpile (1.2 productivity factor)
Dozing density correction based on dry sand = 2300/2400 = 0.96
Slope assumed to be 0 to 5% (1.0 productivity factor)

Ripping/Scarifying/Revegetation Calculation

Minimum 1 hr ripping/scarifying per area
Minimum 1 acre revegetation crew time per area

Regrading Volume Calculation

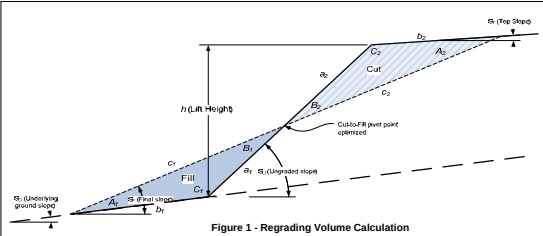


Figure 1 - Regrading Volume Calculation

Regrading Push Distance Calculation

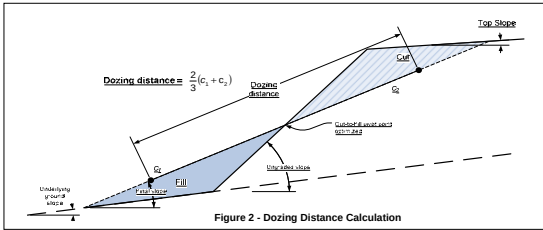


Figure 2 - Dozing Distance Calculation

Final Slope Area and Footprint Area Calculations

Overall slope length (c) = $\frac{\text{Embankment height}}{\cos(\text{Overall slope angle})}$

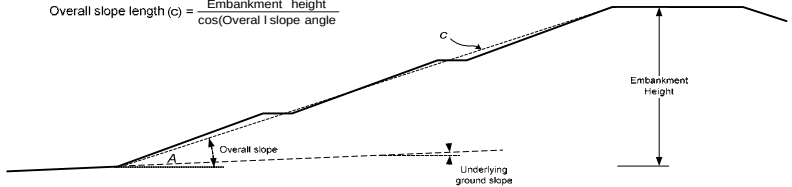


Figure 2 - Final Slope Area and Footprint Area Calculation

Bond Calculation
Tailings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - Embankment Regrading Costs														
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)														
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material Condition	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
												\$0	\$0	\$0

Bond Calculation
Tailings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
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Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - Surface Regrading Costs														
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)														
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Density Correction	Dozing Material	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
												\$0	\$0	\$0

Bond Calculation
Tailings

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - 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 Placement Fleet	Growth Media Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoil Placement Cost \$
							\$0	\$0	\$0						\$0	\$0	\$0

Bond Calculation
Tailings

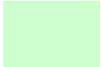
Project Name: SRCE Update 2026 - Reclamation Plan
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Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Tailings - Scarifying/Revegetation Costs															
	Description (required)	Embankment Slope Area acres	Tailings Surface Area acres	Total Surface Area acres	Final Slope Length ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Cost \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Cost \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
									\$0	\$0	\$0	\$0	\$0	\$0	\$0

Bond Calculation
Tailings

Slope
from
Tailings to
Stockpile
% grade



Bond Calculation
Tailings

Scarifying/ Ripping Fleet (select)

Closure Cost Estimate
Roads

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

Roads - User Input														
You must fill in ALL green cells and relevant blue cells in this section for each road														
Facility Description				Physical (1) - MANDATORY						User Overrides		Growth Media		
	Description (required)	ID Code	Type	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Cut Slope degrees	Road Width ft	Road Length ft	Slope Replacement Percent %	Regrade Volume (if calculated elsewhere) cy	Disturbed Area (if calculated elsewhere) acres	Growth Media Thickness in	Haul Distance from Growth Media Stockpile ft	Slope from Road to Stockpile % grade
1	B-road		Project Road	20.0	1.5	60.0	41.5	43,085	100%		41.00	12.0	2,000	0%
2	A-road		Project Road	20.0	1.5	60.0	37.1	28,215	100%		24.00	12.0	2,000	0%
3	1350 road		Project Road	20.0	1.5	60.0	41.5	4,198	100%		4.00	12.0	2,000	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.
Total disturbance for the roads A and B is 102 acres in rec plan. The parameters of the road inputs (except for road length) have been adjusted to reflect this acreage of disturbance.

Closure Cost Estimate Roads

Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1

Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

Roads - User Input (cont.)						
		Haul Road Safety Berms				
	Description (required)	Berm Length ft	Berm Height ft	Berm Base Width ft	Berm Sideslope Angle _H:1V	Number of Berms (2) (1 or 2 sides)
1	B-road					
2	A-road					
3	1350 road					

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

Closure Cost Estimate Roads

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

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)	Dozing Material Condition (select)	Cut Material Type (select)	Recontouring Equipment Fleet ⁽²⁾ (select)	No. of Excavators if grade >30% (select)	Growth Media Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)
1	B-road	1	Alluvium	Med Excavator		Alluvium	Med Truck		Mix 1	None		No	
2	A-road	1	Alluvium	Med Excavator		Alluvium	Med Truck		Mix 1	None		No	
3	1350 road	1	Alluvium	Med Excavator		Alluvium	Med Truck		Mix 1	None		No	

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: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1
 Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

Roads - Calculations

Regrading Volume and Footprint Volume

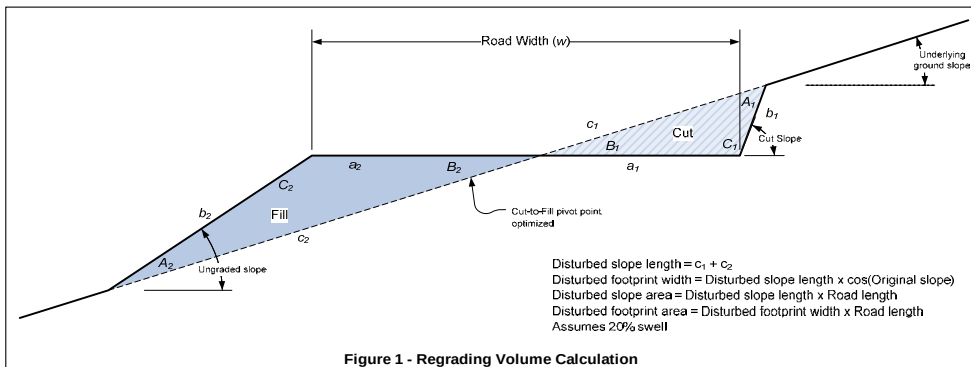


Figure 1 - Regrading Volume Calculation

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

Ripping/Scarifying Calculations

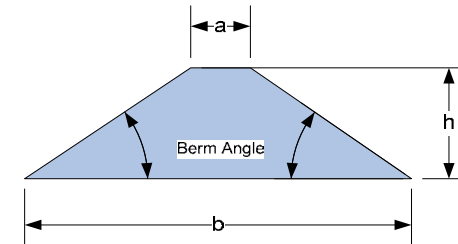
Minimum 1 hr ripping/scarifying time per area
 Number of passes = Final slope length ÷ Grader width
 Travel distance = Number of passes x Road length
 Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
 For dozer regrading assumes push distance = 3 x road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

Revegetation Calculations

Minimum of 1 acre crew time per area

Safety Berm Volume Calculation

Cross Sectional Area = $\frac{(a+b)}{2} \times h$
 Berm Volume = Berm Length x Cross Sectional Area x No. Sides



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

Closure Cost Estimate Roads

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

Roads - Regrading Costs								
	Description (required)	Regrading Volume cy	Recontouring Fleet	Fleet Productivity cy/hr	Total Fleet Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	B-road	95,628	345B	480	199	\$33,762	\$49,479	\$83,241
2	A-road	49,925	345B	480	104	\$17,645	\$25,859	\$43,504
3	1350 road	9,318	345B	480	19	\$3,224	\$4,724	\$7,948
		154,871			322	\$54,631	\$80,062	\$134,693

Closure Cost Estimate Roads

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

Roads - Growth Media Costs									
	Description (required)	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoiling Cost \$
1	B-road	66,143	740/988G	455	2	145	\$48,546	\$66,810	\$115,356
2	A-road	38,718	740/988G	455	2	85	\$28,458	\$39,165	\$67,623
3	1350 road	6,454	740/988G	455	2	14	\$4,687	\$6,451	\$11,138
		111,315				244	\$81,691	\$112,426	\$194,117

Closure Cost Estimate Roads

Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
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 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$54,631	\$80,062	N/A	\$134,693
Cover Placement Cost	\$81,691	\$112,426	N/A	\$194,117
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$136,322	\$192,488		\$328,810
Revegetation Cost	\$0	\$1,346	\$131,169	\$132,515
TOTALS	\$136,322	\$193,834	\$131,169	\$461,325

Roads - Scarifying/Revegetation Costs											
	Description (required)	Total Surface Area acres	Final Slope Length ft	Ripping Hours hrs	Ripping Labor Costs \$	Ripping Equipment Cost \$	Total Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
1	B-road	41.00	41.0		\$0	\$0	\$0	\$0	\$800	\$77,941	\$78,741
2	A-road	24.00	37.0		\$0	\$0	\$0	\$0	\$468	\$45,624	\$46,092
3	1350 road	4.00	42.0		\$0	\$0	\$0	\$0	\$78	\$7,604	\$7,682
		69.00			\$0	\$0	\$0	\$0	\$1,346	\$131,169	\$132,515

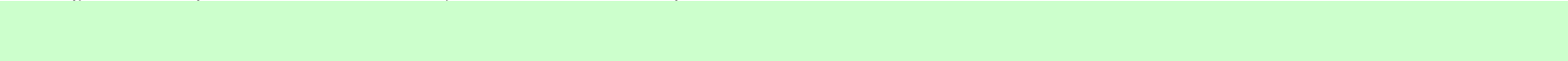
Closure Cost Estimate
Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Pits - Cost Summary				
	Labor	Equipment	Materials	Totals
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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

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



Closure Cost Estimate
Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

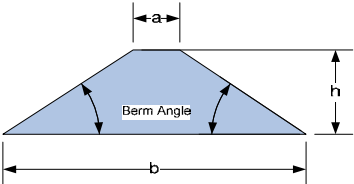
Pits - Cost Summary				
	Labor	Equipment	Materials	Totals
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Safety Berm Volume Calculation

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

Dozer productivity assumes push distance of:

100feet



Dozer:

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

Excavator:

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

Haul & Place:

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

Revegetation Calculations

Minimum 1 acre revegetation crew time per area

3/25/2026
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Page 2 of 4

Pits

Closure Cost Estimate
Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Pits - Cost Summary				
	Labor	Equipment	Materials	Totals
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Pits - Safety Berm Construction Costs									
		Safety Berm							
	Description (required)	Safety Berm Volume cy	Selected Fleet	Number of Trucks/ Scrapers	Corrected Fleet Productivity cy/hr	Total Hours	Safety Berm Labor Cost \$	Safety Berm Equipment Cost \$	Total Safety Berm Cost \$
							\$0	\$0	\$0

Closure Cost Estimate
Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Pits - Cost Summary				
	Labor	Equipment	Materials	Totals
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Pits - Safety Berms - Revegetation Costs						
	Description (required)	Flat Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
			\$0	\$0	\$0	\$0

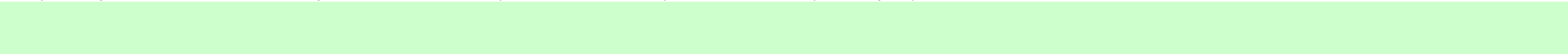
Closure Cost Estimate
Quarries & Borrow Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Quarries & Borrow Pits - User Input																					
You must fill in ALL green cells in this section for each dump, lift or dump category																					
Facility Description				Physical - MANDATORY									Cover				Growth Media				
	Description (required)	ID Code	Type	Underlying Ground Slope % Grade	Ungraded Slope _H:1V	Final Slope _H:1V	Final Top Slope % Grade	Bench or Highwall Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance) ft	Final (Regraded) Footprint acres	Regrade Volume (1) (if calculated elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Dump to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Dump to Stockpile % grade	

- 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)



Closure Cost Estimate
Quarries & Borrow Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Quarries & Borrow Pits - User Input (cont.)		You must fill in ALL green cells and relevant blue cells in this section for each dump, lift or dump category																	
		Grading				Cover		Growth Media		Revegetation									
	Description (required)	Dozing Material Condition (select)	Highwall Material Type (select)	Grading 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)	Flat Slopes (select)	Mulch Slopes (select)	Mulch Flat Areas (select)	Fertilizer Slopes (select)	Fertilizer Flat Areas (select)	Slope Scarify/ Rip? (select)	Flat Area Scarify/ Rip? (select)	Scarify/ Ripping Fleet (select)

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

Closure Cost Estimate
Quarries & Borrow Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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

- Notes:
- All Physical parameters must be input even if manual overrides for volume or area are used.
 - 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)
 - Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Quarries & Borrow Pits - Calculations

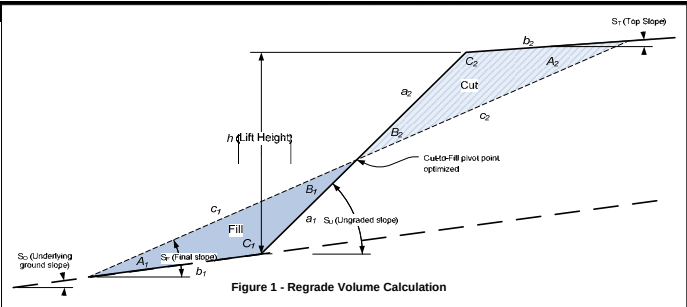


Figure 1 - Regrade Volume Calculation

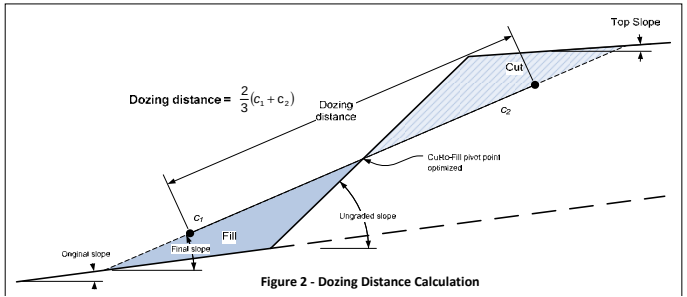


Figure 2 - Dozing Distance Calculation

Final Slope Area and Footprint Area Calculations

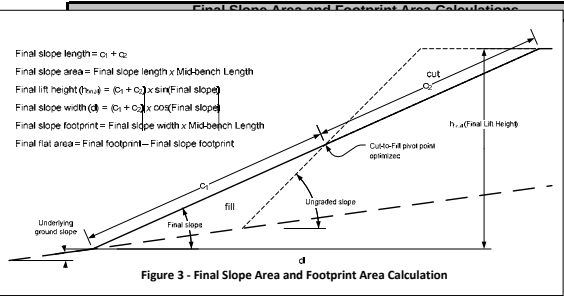


Figure 3 - Final Slope Area and Footprint Area Calculation

Regrading Push Distance Calculation

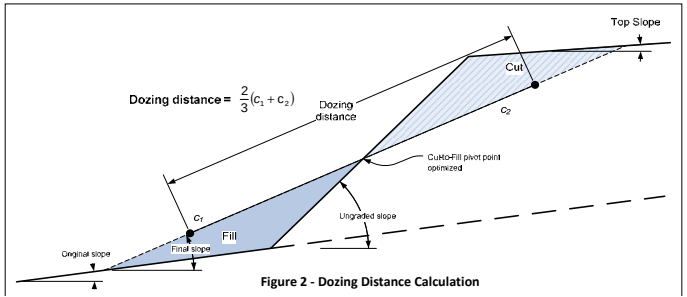


Figure 2 - Dozing Distance Calculation

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per dump

Slopes:

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

Flat Areas:

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

Revegetation: Minimum 1 acre revegetation crew time per area

Closure Cost Estimate Quarries & Borrow Pits

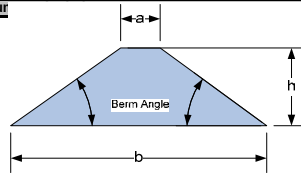
Project Name: SRCE Update 2026 - Reclamation Plan
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File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Safety Berm Volur

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

$$\text{Berm Volume} = \text{Berm Length} \times \text{Cross Sectional Area}$$



Dozer productivity assumes push distance of: feet

Dozer:

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

Excavator:

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

Haul & Place:

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

Closure Cost Estimate
Quarries & Borrow Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Quarries & Borrow Pits - Regrading Costs														
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)														
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
												\$0	\$0	\$0

Closure Cost Estimate
Quarries & Borrow Pits

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Quarries & Borrow Pits - Cover and Growth Media Costs																	
		Cover (lower layer)								Growth Media Placement							
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost \$	Cover Equipment Cost \$	Total Cover Cost \$	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoiling Cost \$
							\$0	\$0	\$0						\$0	\$0	\$0

Closure Cost Estimate
Quarries & Borrow Pits

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Quarries and Borrow Areas - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$0	N/A	\$0
Safety Berm Construction Cost	\$0	\$0	N/A	\$0
Subtotal Earthwork	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Quarries & Borrow Pits - Scarifying/Revegetation Costs																
	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
											\$0	\$0	\$0	\$0	\$0	\$0

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.)

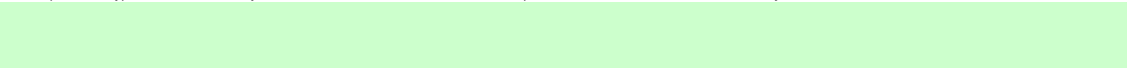
Closure Cost Estimate
Underground Openings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Underground Openings Cost Summary				
	Labor	Equipment	Materials	Totals
Adits, Portals & Declines Plugging	\$32,637	\$969	\$10,608	\$44,214
Shaft Backfill/Cover	\$2,345	\$2,786	N/A	\$5,131
Shaft Capping	\$12,576	\$362	\$5,850	\$18,788
TOTALS	\$47,558	\$4,117	\$16,458	\$68,133

Adits, Portals & Declines - User Input										
Facility Description			Physical Characteristics				Backfill Material			
	Description (required)	ID Code	Height ft	Width ft	Backfill/ Plug Type	Distance to Bulkhead ft	Backfill Material Condition (select)	Backfill Material Type (select)	Distance to Backfill Borrow ft	Slope from Adit to Borrow Area % grade
1	1350 portal		15.0	20.0	Concrete Bu	30				
2	920 portal		15.0	20.0	Concrete Bu	30				
3	Secondary escapeway		15.0	20.0	Concrete Bu	30				

Notes: 1) Foam (adit) option is for smaller openings that can be plugged with simple forms and a 5 ft thick plug.
2) Foam (production) option is for larger production openings (declines, etc.) and requires larger form construction and minimum 10 ft thick plug.
3) All foam plugs include minimum 15ft of backfill from opening to plug.
4) Bat gate option is for small openings and the material cost is the same for any size opening.
5) Backfilling assumes that small dozer will push material from nearby stockpile or dump
6) Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table



Closure Cost Estimate Underground Openings

Project Name: SRCE Update 2026 - Reclamation Plan
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Underground Openings Cost Summary				
	Labor	Equipment	Materials	Totals
Adits, Portals & Declines Plugging	\$32,637	\$969	\$10,608	\$44,214
Shaft Backfill/Cover	\$2,345	\$2,786	N/A	\$5,131
Shaft Capping	\$12,576	\$362	\$5,850	\$18,788
TOTALS	\$47,558	\$4,117	\$16,458	\$68,133

Shaft Openings - User Input											
You must fill in ALL green cells and relevant blue cells in this section for each shaft											
Facility Description			Physical Characteristics			Backfill or Foundation Cover					
	Description (required)	ID Code	Diameter ft	Shaft Depth (for backfill method) ft	Backfill/ Plug Type (select)	Backfill Material Type (select)	Cover/ Backfill Fleet (select)	Thickness (if not complete backfill) ft	Distance to Backfill Borrow ft	Slope from Shaft to Borrow Area % grade	Maximum Fleet Size (user override)
1	Ventilation shaft (twins) - 1		8.0		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	
2	Ventilation shaft (twins) - 2		8.0		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	
3	Drainage hole – 1 – MO0033 portal		0.3		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	
4	Drainage hole – 2 – PS0426 east portal		0.3		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	
5	Ventilation Raise		8.0		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	
6	Ventilation Raise		8.0		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	
7	Ventilation Raise		8.0		Concrete Ca	Alluvium	Small Truck	12.0	500	-5.0	

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



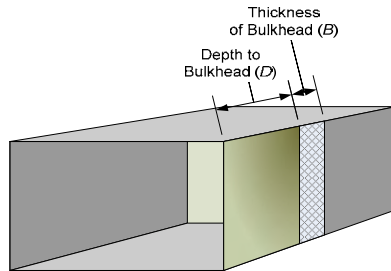
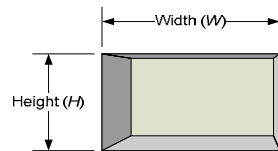
Closure Cost Estimate Underground Openings

Project Name: SRCE Update 2026 - Reclamation Plan
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Underground Openings Cost Summary				
	Labor	Equipment	Materials	Totals
Adits, Portals & Declines Plugging	\$32,637	\$969	\$10,608	\$44,214
Shaft Backfill/Cover	\$2,345	\$2,786	N/A	\$5,131
Shaft Capping	\$12,576	\$362	\$5,850	\$18,788
TOTALS	\$47,558	\$4,117	\$16,458	\$68,133

Underground Openings - Calculations

Adits, Declines and Portals - Volume Calculations



Cross-Sectional Area (A) = $W \times H$
Volume of Concrete Bulkhead = $A \times B$
Volume of Backfill = $A \times D$

Concrete Cover/Bulkhead Volume Calculation

Using Means Heavy Construction Cost Data (2004)

Estimate cover/bulkhead thickness
Assumes that all concrete works are reinforced
Productivity for crew from Means Heavy Construction Cost Data (2004) adjusted for supervision (addressed in Misc. Costs) and Davis-Bacon Wage Rates
Assumes 18 in thick slab

Backfill Calculations

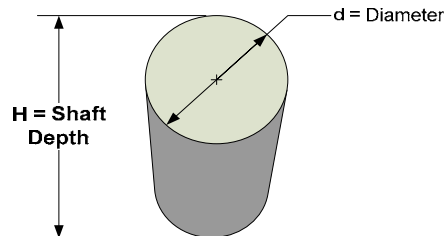
Uses 1 large and 1 small dozer for adit backfill

Assumes max 400 foot push
Assumes average operator and 50 min/hr availability

Uses truck & loader load, haul place fleets for shafts

Concrete cap will be 1.5 feet thick, reinforced, structurally supported.
If concrete cap is used, assume 10 feet of rock backfill on top of cap.
Assumes that all concrete works are reinforced
If backfill is used, assume overfill by 5 feet
Carpenter rate incl Fringe: per hour

Shaft Volume Calculations



Radius (r) = $\frac{1}{2}d$
Cross-Sectional Area (A) = πr^2
Volume = $A \times H$

Closure Cost Estimate
Underground Openings

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Underground Openings Cost Summary				
	Labor	Equipment	Materials	Totals
Adits, Portals & Declines Plugging	\$32,637	\$969	\$10,608	\$44,214
Shaft Backfill/Cover	\$2,345	\$2,786	N/A	\$5,131
Shaft Capping	\$12,576	\$362	\$5,850	\$18,788
TOTALS	\$47,558	\$4,117	\$16,458	\$68,133

Adits, Portals & Declines Plugging																			
Uses RS Means Heavy Construction Cost Data for bulkhead production rate, material costs and crews																			
				Bulkhead Construction				Backfill or Foam (1)				Bat Gate or Culvert (2,3,4)				Total Costs			
	Description (required)	Bulkhead Volume cy	Backfill (rock) Volume cy	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Bulkhead Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Material (Foam) Cost \$	Total Backfill Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Bat Gate Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Plugging Costs \$
1	1350 portal	17		\$10,879	\$323	\$3,536	\$14,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,879	\$323	\$3,536	\$14,738
2	920 portal	17		\$10,879	\$323	\$3,536	\$14,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,879	\$323	\$3,536	\$14,738
3	Secondary escapeway	17		\$10,879	\$323	\$3,536	\$14,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,879	\$323	\$3,536	\$14,738
		51		\$32,637	\$969	\$10,608	\$44,214	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32,637	\$969	\$10,608	\$44,214

- Notes:
- 1) Foam costs include 1 hour move to and setup + 1 hr. minimum crew time
 - 2) Assumes 1 hr walk-in/walk-out time for equipment
 - 3) Batgate assumes 8 hr install time each
 - 4) Bat culvert backfill costs based on one 8-hr day (i.e. backfilling hours = 8 hrs).

Closure Cost Estimate Underground Openings

Project Name: SRCE Update 2026 - Reclamation Plan
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Underground Openings Cost Summary				
	Labor	Equipment	Materials	Totals
Adits, Portals & Declines Plugging	\$32,637	\$969	\$10,608	\$44,214
Shaft Backfill/Cover	\$2,345	\$2,786	N/A	\$5,131
Shaft Capping	\$12,576	\$362	\$5,850	\$18,788
TOTALS	\$47,558	\$4,117	\$16,458	\$68,133

Shaft Plugging										
		Cover/Cap						Backfill/Cover		
	Description (required)	Cover Area ft2	Backfill or Cover Volume cy	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Shaft Cap Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Backfill Cost \$
1	Ventilation shaft (twins) - 1	50	22	\$2,515	\$72	\$1,170	\$3,758	\$335	\$398	\$733
2	Ventilation shaft (twins) - 2	50	22	\$2,515	\$72	\$1,170	\$3,758	\$335	\$398	\$733
3	Drainage hole – 1 – MO0033 portal	0	0	\$0	\$0	\$0	\$0	\$335	\$398	\$733
4	Drainage hole – 2 – PS0426 east portal	0	0	\$0	\$0	\$0	\$0	\$335	\$398	\$733
5	Ventilation Raise	50	22	\$2,515	\$72	\$1,170	\$3,758	\$335	\$398	\$733
6	Ventilation Raise	50	22	\$2,515	\$72	\$1,170	\$3,758	\$335	\$398	\$733
7	Ventilation Raise	50	22	\$2,515	\$72	\$1,170	\$3,758	\$335	\$398	\$733
		250	110	\$12,576	\$362	\$5,850	\$18,788	\$2,345	\$2,786	\$5,131

Closure Cost Estimate
Haul Material

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Generic Material Hauling - Cost Summary				
	Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact	\$7,915,554	\$9,308,143	N/A	\$17,223,697
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$7,915,554	\$9,308,143	\$0	\$17,223,697
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$7,915,554	\$9,308,143	\$0	\$17,223,697

Generic Material Hauling - User Input																				
Facility Description				Physical		Hauled Material			Crushing & Screening					Cover			Growth Media			
	Description (required)	ID Code	Type	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	
1	Tailings - 10 in. Drain Layer		Tailings Impoundments			129,053	5,280	5.0		No	25%	5,000	-5.0							
2	Tailings - 24 in. compacted till from Site E and Site D		Tailings Impoundments			309,728	31,100	5.0												
3	Tailings - Growth Media (from existing stockpiles)		Tailings Impoundments			284,619	17,100	-5.0												
4	Tailings - 10-in Lower Capillary Break		Tailings Impoundments			129,053	500	0.0		Yes	25%	500	5.0							
5	Pit 174 glacial till wedge		Quarry			18,500	500	-5.0												
6	920 Foundations and buildings concrete to portal		Structures			6,200	5,333	-5.0												
7	Hawk Inlet Foundations and buildings concrete to portal		Structures			2,214	41,026	-5.0												
8	920 building debris to portal		Structures			20,514	5,333	-5.0												
9	Hawk Inlet building debris to portal		Structures			2,081	41,026	-5.0												
10	5.0 mile A-Road to tailings		Waste Rock Dump			1,000	28,934	-5.0												
11	3.9 mile A-Road to tailings		Waste Rock Dump			15,000	23,126	-5.0												
12	3.2 mile A-Road to tailings		Waste Rock Dump			600	19,430	-5.0												
13	0.9 mile A-Road to tailings		Waste Rock Dump			1,500	7,286	-5.0												
14	1.8 mile B-Road to tailings		Waste Rock Dump			5,000	4,224	-5.0												
15	2.5 mile B-Road to tailings		Waste Rock Dump			60,000	7,920	-5.0												
16	Zinc Creek Bridge to tailings		Waste Rock Dump			5,000	16,896	-5.0												
17	Pit 174 to tailings		Waste Rock Dump			4,000	12,144	-5.0												
18	7.3 mile B-Road to tailings		Waste Rock Dump			500	33,264	-5.0												
19	1350 Road to tailings		Waste Rock Dump			8,000	42,240	-5.0												
20	Core Shed to tailings		Waste Rock Dump			2,000	5,280	-5.0												
21	Truck Pad to tailings		Waste Rock Dump			30,000	5,280	-5.0												
22	Con Storage to tailings		Waste Rock Dump			10,000	5,280	-5.0												
23	Site E to tailings		Waste Rock Dump			40,000	19,008	-5.0												
24	Pit 405 to tailings		Waste Rock Dump			20,000	34,848	-5.0												
25	D Pile to tailings		Waste Rock Dump			120,000	36,960	-5.0												
26	Pond 23 Bedding to tailings		Waste Rock Dump			6,000	36,960	-5.0												
27	Site C to portal		Waste Rock Dump			50,000	1,908	-5.0												
28	Mill Backslope to portal		Waste Rock Dump			25,000	946	-5.0												
29	Mill/Admin Fill to portal		Waste Rock Dump			100,000	946	-5.0												
30	Ore Pad to portal		Waste Rock Dump			18,000	946	-5.0												
31	Warehouse Pad to portal		Waste Rock Dump			13,000	946	-5.0												
32	Water Building to portal		Waste Rock Dump			3,500	946	-5.0												
33	Mine Portal to portal		Waste Rock Dump			4,000	681	-5.0												
34	960 Site to portal		Waste Rock Dump			100	681	-5.0												
35	1350 Site to portal		Waste Rock Dump			10,000	500	-5.0												
36	Site 23 to tailings		Waste Rock Dump			1,449,725	36,200	-5.0												
37	WWTP Solids from Pond Cleaning		Ponds			11,400	1,000	-5.0												

- 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 Productivity Sheet)

Closure Cost Estimate
Haul Material

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Generic Material Hauling - Cost Summary				
	Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact	\$7,915,554	\$9,308,143	N/A	\$17,223,697
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$7,915,554	\$9,308,143	\$0	\$17,223,697
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$7,915,554	\$9,308,143	\$0	\$17,223,697

Generic Material Hauling - User Input (cont.)																
Hauling Material					Cover			Growth Media			Revegetation					
	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	Tailings - 10 in. Drain Layer	LS - broken	Med Truck	4												
2	Tailings - 24 in. compacted till from Site E and Site D	LS - broken	Med Truck	8	Yes											
3	Tailings - Growth Media (from existing stockpiles)	LS - broken	Med Truck	8												
4	Tailings - 10-in Lower Capillary Break	LS - broken	Med Truck	4												
5	Pit 174 glacial till wedge	LS - broken	Med Truck													
6	920 Foundations and buildings concrete to portal	LS - broken	Small Truck													
7	Hawk Inlet Foundations and buildings concrete to portal	LS - broken	Small Truck	8												
8	920 building debris to portal	LS - broken	Small Truck													
9	Hawk Inlet building debris to portal	LS - broken	Small Truck	8												
10	5.0 mile A-Road to tailings	LS - broken	Med Truck	8												
11	3.9 mile A-Road to tailings	LS - broken	Med Truck	8												
12	3.2 mile A-Road to tailings	LS - broken	Med Truck													
13	0.9 mile A-Road to tailings	LS - broken	Med Truck													
14	1.8 mile B-Road to tailings	LS - broken	Med Truck													
15	2.5 mile B-Road to tailings	LS - broken	Med Truck													
16	Zinc Creek Bridge to tailings	LS - broken	Med Truck	8												
17	Pit 174 to tailings	LS - broken	Med Truck													
18	7.3 mile B-Road to tailings	LS - broken	Med Truck	8												
19	1350 Road to tailings	LS - broken	Med Truck	8												
20	Core Shed to tailings	LS - broken	Med Truck													
21	Truck Pad to tailings	LS - broken	Med Truck													
22	Con Storage to tailings	LS - broken	Med Truck													
23	Site E to tailings	LS - broken	Med Truck	8												
24	Pit 405 to tailings	LS - broken	Med Truck	8												
25	D Pile to tailings	LS - broken	Med Truck	8												
26	Pond 23 Bedding to tailings	LS - broken	Med Truck	8												
27	Site C to portal	LS - broken	Small Truck													
28	Mill Backslope to portal	LS - broken	Small Truck													
29	Mill/Admin Fill to portal	LS - broken	Small Truck													
30	Ore Pad to portal	LS - broken	Small Truck													
31	Warehouse Pad to portal	LS - broken	Small Truck													
32	Water Building to portal	LS - broken	Small Truck													
33	Mine Portal to portal	LS - broken	Small Truck													
34	960 Site to portal	LS - broken	Small Truck													
35	1350 Site to portal	LS - broken	Small Truck													
36	Site 23 to tailings	LS - broken	Med Truck	8												
37	WWTP Solids from Pond Cleaning	Tailings - Slim	Small Truck													

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

**Closure Cost Estimate
Haul Material**

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Generic Material Hauling - Cost Summary				
	Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact	\$7,915,554	\$9,308,143	N/A	\$17,223,697
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$7,915,554	\$9,308,143	\$0	\$17,223,697
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$7,915,554	\$9,308,143	\$0	\$17,223,697

Generic Material Hauling - Load, Haul, Place and Grade													
		Material Haulage								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	Tailings - 10 in. Drain Layer	129,053	129,053	740/988G	637	8	203	\$101,488	\$128,820	\$0	\$0	\$0	\$230,308
2	Tailings - 24 in. compacted till from Site E and Site D	309,728	309,728	740/988G	412	8	752	\$624,325	\$738,629	\$0	\$148,669	\$27,875	\$1,539,499
3	Tailings - Growth Media (from existing stockpiles)	284,619	284,619	740/988G	432	8	659	\$547,115	\$647,283	\$0	\$0	\$0	\$1,194,398
4	Tailings - 10-in Lower Capillary Break	172,071	129,053	740/988G	1,189	8	145	\$127,484	\$161,818	\$64,527	\$0	\$0	\$353,829
5	Pit 174 glacial till wedge	18,500	18,500	740/988G	571	2	32	\$10,714	\$14,744	\$0	\$0	\$0	\$25,458
6	920 Foundations and buildings concrete to portal	6,200	6,200	740/988G	501	4	12	\$5,999	\$6,867	\$0	\$0	\$0	\$12,866
7	Hawk Inlet Foundations and buildings concrete to portal	2,214	2,214	740/988G	206	8	11	\$9,132	\$10,119	\$0	\$0	\$0	\$19,251
8	920 building debris to portal	20,514	20,514	740/988G	501	4	41	\$20,498	\$23,463	\$0	\$0	\$0	\$43,961
9	Hawk Inlet building debris to portal	2,081	2,081	740/988G	206	8	10	\$8,302	\$9,199	\$0	\$0	\$0	\$17,501
10	5.0 mile A-Road to tailings	1,000	1,000	740/988G	279	8	4	\$3,321	\$3,929	\$0	\$0	\$0	\$7,250
11	3.9 mile A-Road to tailings	15,000	15,000	740/988G	339	8	44	\$36,530	\$43,218	\$0	\$0	\$0	\$79,748
12	3.2 mile A-Road to tailings	600	600	740/988G	588	12	1	\$1,161	\$1,330	\$0	\$0	\$0	\$2,491
13	0.9 mile A-Road to tailings	1,500	1,500	740/988G	515	5	3	\$1,748	\$2,164	\$0	\$0	\$0	\$3,912
14	1.8 mile B-Road to tailings	5,000	5,000	740/988G	574	4	9	\$4,499	\$5,711	\$0	\$0	\$0	\$10,210
15	2.5 mile B-Road to tailings	60,000	60,000	740/988G	583	6	103	\$68,503	\$83,265	\$0	\$0	\$0	\$151,768
16	Zinc Creek Bridge to tailings	5,000	5,000	740/988G	438	8	11	\$9,132	\$10,804	\$0	\$0	\$0	\$19,936
17	Pit 174 to tailings	4,000	4,000	740/988G	571	8	7	\$5,812	\$6,876	\$0	\$0	\$0	\$12,688
18	7.3 mile B-Road to tailings	500	500	740/988G	246	8	2	\$1,660	\$1,964	\$0	\$0	\$0	\$3,624
19	1350 Road to tailings	8,000	8,000	740/988G	199	8	40	\$33,209	\$39,289	\$0	\$0	\$0	\$72,498
20	Core Shed to tailings	2,000	2,000	740/988G	505	4	4	\$2,000	\$2,538	\$0	\$0	\$0	\$4,538
21	Truck Pad to tailings	30,000	30,000	740/988G	505	4	59	\$29,496	\$37,440	\$0	\$0	\$0	\$66,936
22	Con Storage to tailings	10,000	10,000	740/988G	505	4	20	\$9,999	\$12,692	\$0	\$0	\$0	\$22,691
23	Site E to tailings	40,000	40,000	740/988G	398	8	101	\$83,852	\$99,204	\$0	\$0	\$0	\$183,056
24	Pit 405 to tailings	20,000	20,000	740/988G	239	8	84	\$69,738	\$82,506	\$0	\$0	\$0	\$152,244
25	D Pile to tailings	120,000	120,000	740/988G	226	8	531	\$440,847	\$521,559	\$0	\$0	\$0	\$962,406
26	Pond 23 Bedding to tailings	6,000	6,000	740/988G	226	8	27	\$22,416	\$26,520	\$0	\$0	\$0	\$48,936
27	Site C to portal	50,000	50,000	740/988G	413	2	121	\$40,511	\$48,212	\$0	\$0	\$0	\$88,723
28	Mill Backslope to portal	25,000	25,000	740/988G	508	2	49	\$16,405	\$19,524	\$0	\$0	\$0	\$35,929
29	Mill/Admin Fill to portal	100,000	100,000	740/988G	508	2	197	\$65,956	\$78,495	\$0	\$0	\$0	\$144,451
30	Ore Pad to portal	18,000	18,000	740/988G	508	2	35	\$11,718	\$13,946	\$0	\$0	\$0	\$25,664
31	Warehouse Pad to portal	13,000	13,000	740/988G	508	2	26	\$8,705	\$10,360	\$0	\$0	\$0	\$19,065
32	Water Building to portal	3,500	3,500	740/988G	508	2	7	\$2,344	\$2,789	\$0	\$0	\$0	\$5,133
33	Mine Portal to portal	4,000	4,000	740/988G	544	2	7	\$2,344	\$2,789	\$0	\$0	\$0	\$5,133
34	960 Site to portal	100	100	740/988G	544	2	1	\$335	\$398	\$0	\$0	\$0	\$733
35	1350 Site to portal	10,000	10,000	740/988G	571	2	18	\$6,026	\$7,172	\$0	\$0	\$0	\$13,198
36	Site 23 to tailings	1,449,725	1,449,725	740/988G	226	8	6,415	\$5,325,861	\$6,300,941	\$0	\$0	\$0	\$11,626,802
37	WWTP Solids from Pond Cleaning	11,400	11,400	740/988G	501	2	23	\$7,700	\$9,164	\$0	\$0	\$0	\$16,864
		2,958,306	2,915,288				9,814	\$7,766,885	\$9,215,741	\$64,527	\$148,669	\$27,875	\$17,223,697

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

Closure Cost Estimate
Haul Material

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Generic Material Hauling - Cost Summary				
	Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact	\$7,915,554	\$9,308,143	N/A	\$17,223,697
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$7,915,554	\$9,308,143	\$0	\$17,223,697
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$7,915,554	\$9,308,143	\$0	\$17,223,697

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 Placement Fleet	Growth Media Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoil Placement Cost \$
1	Tailings - 10 in. Drain Layer						\$0	\$0	\$0	0					\$0	\$0	\$0
2	Tailings - 24 in. compacted till from Site E and Site D						\$0	\$0	\$0	0					\$0	\$0	\$0
3	Tailings - Growth Media (from existing stockpiles)						\$0	\$0	\$0	0					\$0	\$0	\$0
4	Tailings - 10-in Lower Capillary Break						\$0	\$0	\$0	0					\$0	\$0	\$0
5	Pit 174 glacial till wedge						\$0	\$0	\$0	0					\$0	\$0	\$0
6	920 Foundations and buildings concrete to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
7	Hawk Inlet Foundations and buildings concrete to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
8	920 building debris to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
9	Hawk Inlet building debris to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
10	5.0 mile A-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
11	3.9 mile A-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
12	3.2 mile A-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
13	0.9 mile A-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
14	1.8 mile B-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
15	2.5 mile B-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
16	Zinc Creek Bridge to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
17	Pit 174 to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
18	7.3 mile B-Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
19	1350 Road to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
20	Core Shed to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
21	Truck Pad to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
22	Con Storage to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
23	Site E to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
24	Pit 405 to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
25	D Pile to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
26	Pond 23 Bedding to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
27	Site C to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
28	Mill Backslope to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
29	Mill/Admin Fill to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
30	Ore Pad to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
31	Warehouse Pad to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
32	Water Building to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
33	Mine Portal to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
34	960 Site to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
35	1350 Site to portal						\$0	\$0	\$0	0					\$0	\$0	\$0
36	Site 23 to tailings						\$0	\$0	\$0	0					\$0	\$0	\$0
37	WWTP Solids from Pond Cleaning						\$0	\$0	\$0	0					\$0	\$0	\$0
							\$0	\$0	\$0						\$0	\$0	\$0

Closure Cost Estimate
Haul Material

Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1
 Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Generic Material Hauling - Cost Summary				
	Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact	\$7,915,554	\$9,308,143	N/A	\$17,223,697
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$7,915,554	\$9,308,143	\$0	\$17,223,697
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$7,915,554	\$9,308,143	\$0	\$17,223,697

Generic Material Hauling - Scarifying/Revegetation Costs										
	Description (required)	Total Surface Area acres	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Cost \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Cost \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
1	Tailings - 10 in. Drain Layer	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Tailings - 24 in. compacted till from Site E and Site D	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Tailings - Growth Media (from existing stockpiles)	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Tailings - 10-in Lower Capillary Break	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Pit 174 glacial till wedge	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	920 Foundations and buildings concrete to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Hawk Inlet Foundations and buildings concrete to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	920 building debris to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Hawk Inlet building debris to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	5.0 mile A-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	3.9 mile A-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	3.2 mile A-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	0.9 mile A-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	1.8 mile B-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	2.5 mile B-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Zinc Creek Bridge to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Pit 174 to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	7.3 mile B-Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	1350 Road to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	Core Shed to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	Truck Pad to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
22	Con Storage to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	Site E to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Pit 405 to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	D Pile to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Pond 23 Bedding to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	Site C to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Mill Backslope to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Mill/Admin Fill to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	Ore Pad to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	Warehouse Pad to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
32	Water Building to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
33	Mine Portal to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	960 Site to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	1350 Site to portal	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	Site 23 to tailings	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
37	WWTP Solids from Pond Cleaning	0.10		\$0	\$0	\$0	\$0	\$0	\$0	\$0
		3.70		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

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

Minimum thickness of cover over unbroken slab: 0 ft

Buildings & Foundation - User Input				You must fill in ALL green cells and relevant blue cells in this section for each building or facility													
Facility Description				Physical - MANDATORY								Foundation Cover (1)			Growth Media (1) (entire footprint)		
	Description (required)	ID Code	Type	Length ft	Width ft	Eve Height ft	Slab Thickness in	Foundation Wall Thickness in	Foundation Wall Height ft	Average Flat Area Long Dimension (ripping distance) ft	Building Area Footprint (including surrounding facilities) acres	Foundation Cover Thickness in	Distance from Foundation Cover Borrow Area ft	Slope from Facility to Borrow Area % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
1	860 - Exploration Trailer I		Process - Other	31	8	12	0	0	0	32	0.01						
2	860 - Exploration Trailer II		Process - Other	12	12	12	6	12	2	17	0.00						
3	860 - Geology Building		Process - Other	42	32	12	6	12	2	53	0.03						
4	860 - Laboratory Building		Process - Other	56	44	12	6	12	2	71	0.06						
5	860 - Safety Building		Process - Other	55	33	12	6	12	2	64	0.04						
6	860 - Test Cover Building		Process - Other	40	21	12	0	0	0	45	0.02						
7	860 - Training Trailer		Process - Other	58.75	15	12	0	0	0	0	0.02						
8	860 - Concrete containment		Process - Other	12.5	13	4	6	6	2	18	0.00						
9	860 - Sewer lift station		Process - Other	7	7	6	6	6	0	10	0.00						
10	860 - Shipping Container		Process - Other	20	32	8	0	0	0	86	0.01						
11	860 - Core Shed Slab		Process - Other	35	30	0	6	0	0	46	0.02						
12	920 - Admin/Shop Building		Process - Other	134.5	100	22	6	12	2	168	0.31						
13	920 - Admin/Shop Building Entrance		Process - Other	22	10	12	6	12	2	24	0.01						
14	920 - Batch Plant		Process - Other	54	16	22	6	12	2	56	0.02						
15	920 - Batch Plant Feed Hopper		Process - Other	40	20	12	6	12	2	45	0.02						
16	920 - Batch Plant MCC		Process - Other	10.5	7	12	12	12	2	13	0.00						
17	920 - Electrical Shop		Process - Other	41	32	22	6	12	2	52	0.03						
18	920 - Light Vehicle Shop		Process - Other	53	41	22	6	12	2	67	0.05						
19	920 - Mill cleaner building		Process - Other	114	60	24	6	12	2	129	0.16						
20	920 - Mill Concentrate loadout		Process - Other	82	78	32	12	12	2	113	0.15						
21	920 - Mill Concentrator		Process - Other	178	113	70	6	12	2	211	0.46						
22	920 - Mill E&I Shop		Process - Other	49.5	14	12	6	12	2	51	0.02						
23	920 - Mill Maintenance Shop		Process - Other	58	33	22	6	12	2	67	0.04						
24	920 - Mill Tails Loadout I		Process - Other	30	18	22	12	0	0	35	0.01						
25	920 - Mill Tails Loadout II		Process - Other	115	43	32	12	0	0	123	0.11						
26	920 - Mill Tails Loadout III		Process - Other	81	21	32	12	0	0	84	0.04						
27	920 - Mill WTP 400 gpm		Process - Other	62	25	32	6	12	2	62	0.04						
28	920 - Mill WTP 800 gpm		Process - Other	65.75	30	32	12	12	2	72	0.05						
29	920 - Mud Waterfall Concrete Vaults (3)		Process - Other	24	8	0	6	6	5	25	0.00						
30	920 - Mill Dry Addition		Process - Other	40	31	70	6	0	0	51	0.03						
31	920 - Mine switch gear building		Process - Other	26.5	22	12	6	12	2	34	0.01						

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
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Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

32	920 - Ore Pad Shack	Process - Other	16.5	8	12	6	12	2	18	0.00						
33	920 - Potable building	Process - Other	26	22	12	6	12	2	34	0.01						
34	920 - Powerhouse Generator Cat I	Process - Other	30	10	12	6	12	2	32	0.01						
35	920 - Powerhouse Generator Cat II	Process - Other	30	10	12	6	12	2	32	0.01						
36	920 - Powerhouse I	Process - Other	78.5	64	22	6	12	2	101	0.12						
37	920 - Powerhouse II	Process - Other	27.25	22	12	6	0	0	35	0.01						
38	920 - Powerhouse Turbine	Process - Other	32.25	8	12	6	12	2	33	0.01						
39	920 - Shop bulk oil storage	Process - Other	49.5	25	12	6	0	0	55	0.03						
40	920 - Shop covered bays	Process - Other	86.5	12	22	0	0	0	87	0.02						
41	920 - Shop Tire Storage I	Process - Other	49.5	25	12	12	0	0	55	0.03						
42	920 - Shop Tire Storage II	Process - Other	92.25	16	12	6	0	0	94	0.03						
43	920 - Warehouse	Process - Other	150	52	22	6	12	2	150	0.18						
44	920 - Caisson	Process - Other	5	5	12	0	0	0	7	0.00						
45	920 - Concrete containment	Process - Other	7	6	0	6	12	2	9	0.00						
46	920 - Concrete road surface	Process - Other	30	2,900	0	12	0	0	410	2.00						
47	920 - DB-01	Process - Other	70	12	0	12	6	12	71	0.02						
48	920 - DB-01'	Process - Other	70	12	0	12	6	12	71	0.02						
49	920 - DB-02	Process - Other	64	20	0	12	6	6	67	0.03						
50	920 - DB-03 - Pond 23	Process - Other	80	12	0	12	6	6	81	0.02						
51	920 - DB-03' - Pond 23	Process - Other	80	12	0	12	6	6	81	0.02						
52	920 - DB-09 - Ore Pad	Process - Other	70	18	0	12	12	6	71	0.03						
53	920 - Fuel Farm Containment	Process - Other	80	50	0	6	12	4	80	0.09						
54	920 - Main substation	Process - Other	50	40	12	6	12	2	64	0.05						
55	920 - Mill thickeners concrete pad	Process - Other	110	75	0	12	0	0	62	0.19						
56	920 - Powerhouse fuel containment pad	Process - Other	70	56	0	6	12	2	90	0.09						
57	920 - Sediment trap I	Process - Other	10	6	6	6	6	0	11	0.00						
58	920 - Sediment trap II	Process - Other	12	6	6	6	6	0	13	0.00						
59	920 - Sewer lift station	Process - Other	18	10	8	6	6	8	21	0.00						
60	920 - Utility vault I	Process - Other	9.5	6	6	6	0	6	11	0.00						
61	920 - Utility vault II	Process - Other	9	5	6	6	0	6	10	0.00						
62	920 - Utility vault III	Process - Other	6	4	6	6	0	6	7	0.00						
63	920 - Utility vault IV	Process - Other	13	7	6	6	0	6	15	0.00						
64	920 - Warehouse microwave tower	Process - Other	15	10	12	12	0	0	18	0.00						
65	920 - Portal Transformer I	Process - Other	9	5	4	6	0	0	10	0.00						
66	920 - Portal Transformer II	Process - Other	13	8	4	6	0	0	15	0.00						
67	920 - Containers	Process - Other	20	8	8	0	0	0	23	0.00						
68	920 - Containers	Process - Other	20	8	8	6	0	0	22	0.00						
69	920 - Containers	Process - Other	52	20	12	0	0	0	56	0.02						
70	920 - Containers	Process - Other	80	32	12	0	0	0	86	0.06						
71	920 - Containers	Process - Other	80	32	12	0	0	0	86	0.06						
72	920 - Containers	Process - Other	20	8	12	0	0	0	20	0.00						
73	920 - Containers	Process - Other	20	8	12	0	0	0	20	0.00						
74	920 - Containers	Process - Other	20	8	12	0	0	0	20	0.00						
75	920 - Batch plant hopper	Process - Other	36	17	12	12	0	0	40	0.01						
76	920 - Fuel tank FT-01, 24'D x 18'H	Process - Other	21	21	18	0	0	0	0	0.01						
77	920 - Fuel tank FT-04, 16'D x 32'H	Process - Other	14	14	32	0	0	0	0	0.00						

Closure Cost Estimate
Foundations & Buildings

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Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

78	920 - Fuel tank FT-05, 16'D x 32'H	Process - Other	14	14	32	0	0	0	0	0.00						
79	920 - Mill bulk thickener	Process - Other	31	31	12	12	0	0	44	0.02						
80	920 - Mill cleaner building tube	Process - Other	40	8	12	0	0	0	0	0.01						
81	920 - Mill conveyor	Process - Other	114	9	5	0	0	0	114	0.02						
82	920 - Mill lead thickener	Process - Other	20.5	21	12	12	0	0	29	0.01						
83	920 - Mill tailings thickener	Process - Other	61	61	12	6	0	0	86	0.09						
84	920 - Mill tails stk	Process - Other	19	19	12	6	0	0	27	0.01						
85	920 - Mill zinc thickener	Process - Other	31	31	12	6	0	0	44	0.02						
86	920 - Ore pad crusher	Process - Other	21	18	12	6	12	2	28	0.01						
87	920 - Sewer treatment plant	Process - Other	60	16	12	0	0	0	62	0.02						
88	920 - Mill ferric chloride tank	Process - Other	13	13	12	6	0	0	18	0.00						
89	920 - Mill sulfuric acid tank	Process - Other	13	13	12	6	0	0	18	0.00						
90	23 Pond - Diesel pump	Process - Other	17	10	12	6	0	0	20	0.00						
91	23 Pond - Pump house	Process - Other	26	25	12	6	12	2	36	0.01						
92	23 Pond - Vault	Process - Other	4	4	6	6	0	6	6	0.00						
93	860 - 860 Shotcrete - Eco-block walls	Process - Other	15	2	12	0	24	12	15	0.00						
94	860 - 860 Shotcrete - Eco-block walls	Process - Other	40	2	12	0	24	12	40	0.00						
95	Hawk Inlet - Boat house/boom shed	Process - Other	41	24	12	0	0	0	0	0.02						
96	Hawk Inlet - Boiler building	Process - Other	34	24	12	6	12	2	42	0.02						
97	Hawk Inlet - Building maintenance shed II	Process - Other	46.75	17	12	6	12	2	50	0.02						
98	Hawk Inlet - Building maintenance shed I	Process - Other	49	17	12	6	12	2	52	0.02						
99	Hawk Inlet - Cardboard	Process - Other	25	12	12	6	12	2	28	0.01						
100	Hawk Inlet - Concentrate storage building	Process - Other	281	162	24	6	12	2	324	1.04						
101	Hawk Inlet - Conveyor, headhouse etc.	Process - Other	71	56	12	0	0	0	90	0.09						
102	Hawk Inlet - Core shed	Process - Other	103.5	52	12	6	12	2	116	0.12						
103	Hawk Inlet - Exploration Trailer	Process - Other	60.75	14	12	0	0	0	62	0.02						
104	Hawk Inlet - Generator building	Process - Other	42	23	12	6	12	2	48	0.02						
105	Hawk Inlet - Housing (Cabin)	Process - Other	20	12	15	0	0	0	0	0.01						
106	Hawk Inlet - Housing (Baranof)	Process - Other	112.8	29	28	0	0	0	116	0.08						
107	Hawk Inlet - Housing (Admiralty)	Process - Other	112.8	29	28	0	0	0	116	0.08						
108	Hawk Inlet - Housing (Skid Row - South Building)	Process - Other	33	20	13	0	0	0	39	0.02						
109	Hawk Inlet - Housing (Skid Row - Connecting Roof)	Process - Other	48	33	11	0	0	0	0	0.04						
110	Hawk Inlet - Housing (Skid Row - North Building)	Process - Other	27	20	11	0	0	0	34	0.01						
111	Hawk Inlet - Housing (Grand Boiler Building)	Process - Other	25	10	12	6	12	2	26	0.01						
112	Hawk Inlet - Housing (Grand I)	Process - Other	124	75	40	6	0	0	145	0.21						
113	Hawk Inlet - Housing (Grand II)	Process - Other	91	25	40	6	0	0	94	0.05						
114	Hawk Inlet - Housing (Hilton)	Process - Other	115	30	32	6	12	2	119	0.08						
115	Hawk Inlet - Housing (HU 1 of 3)	Process - Other	45.5	11	9	0	0	0	47	0.01						
116	Hawk Inlet - Housing (HU 2 of 3)	Process - Other	45.5	11	9	0	0	0	47	0.01						
117	Hawk Inlet - Housing (HU 3 of 3)	Process - Other	45.5	11	9	0	0	0	47	0.01						
118	Hawk Inlet - Exercise (1 of 3)	Process - Other	45.5	11	9	0	0	0	47	0.01						
119	Hawk Inlet - Exercise (2 of 3)	Process - Other	45.5	11	9	0	0	0	47	0.01						
120	Hawk Inlet - Exercise (3 of 3)	Process - Other	45.5	11	9	0	0	0	47	0.01						
121	Hawk Inlet - South Cannery Dry Addition	Process - Other	28	29	15	0	0	0	40	0.02						
122	Hawk Inlet - Maintenance building	Process - Other	50.75	34	12	6	12	2	61	0.04						
123	Hawk Inlet - Pump house on pilings	Process - Other	5	4	12	0	0	0	0	0.00						

Closure Cost Estimate
Foundations & Buildings

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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

124	Hawk Inlet - Pump house on pilings	Process - Other	45.75	43	12	6	12	2	62	0.04						
125	Hawk Inlet - Trailer	Process - Other	60.75	14	10	0	0	0	0	0.02						
126	Hawk Inlet - Trailer	Process - Other	42	12	10	0	0	0	0	0.01						
127	Hawk Inlet - Trailer	Process - Other	40	10	10	0	0	0	0	0.01						
128	Hawk Inlet - Trailer	Process - Other	31.75	10	10	0	0	0	0	0.01						
129	Hawk Inlet - Large Freezer	Process - Other	25	25	8	6	0	0	35	0.01						
130	Hawk Inlet - Warehouse	Process - Other	94	60	22	6	12	2	112	0.13						
131	Hawk Inlet - Warehouse Storage I	Process - Other	94	10	12	6	12	2	95	0.02						
132	Hawk Inlet - Warehouse Storage II	Process - Other	94	20	12	6	0	0	96	0.04						
133	Hawk Inlet - Sea Vans Containers (All)	Process - Other	1560	8	12	0	0	0	0	0.29						
134	Hawk Inlet - Sewer Treatment Addition (Aerobic Tank)	Process - Other	12.5	13	8	0	0	0	0	0.00						
135	Hawk Inlet - Sewer Treatment Addition (Anoxic Tank)	Process - Other	9.5	10	8	0	0	0	0	0.00						
136	Hawk Inlet - Sewer Treatment Addition (MBR Tank Container)	Process - Other	40	8	10	0	0	0	41	0.01						
137	Hawk Inlet - Sewer Treatment Addition (Elev Screen Container)	Process - Other	40	8	10	0	0	0	41	0.01						
138	Hawk Inlet - Sewer Treatment Addition (Container Foundation)	Process - Other	41.5	22	0	6	0	0	47	0.02						
139	Hawk Inlet - Sewer Treatment Addition (Aerobic Foundation)	Process - Other	13	2	0	36	0	0	0	0.00						
140	Hawk Inlet - Sewer Treatment Addition (Anoxic Foundation)	Process - Other	12	2	0	36	0	0	0	0.00						
141	Hawk Inlet - Tanks Next to Water Treatment Building	Process - Other	12	12	125	0	0	0	0	0.00						
142	Hawk Inlet - Foundation for Tanks Next to Water Treatment Building	Process - Other	85	75	0	6	0	0	113	0.15						
143	Hawk Inlet - Water treatment building	Process - Other	34.5	29	22	6	12	2	45	0.02						
144	Hawk Inlet - Wheel wash building	Process - Other	55	34	22	6	12	2	65	0.04						
145	Hawk Inlet - 22' tank's Pad	Process - Other	67	27	0	12	0	0	72	0.04						
146	Hawk Inlet - Concrete pad in front of warehouse	Process - Other	77	20	0	6	0	0	80	0.04						
147	Hawk Inlet - Concrete pad west side of warehouse	Process - Other	22	20	0	6	0	0	30	0.01						
148	Hawk Inlet - DB-04	Process - Other	80	12	0	12	6	6	81	0.02						
149	Hawk Inlet - DB-04'	Process - Other	80	12	0	12	6	6	81	0.02						
150	Hawk Inlet - DB-04 Concrete drain	Process - Other	24.5	3	0	6	0	0	25	0.00						
151	Hawk Inlet - Oil containment	Process - Other	37	2	2	6	6	2	37	0.00						
152	Hawk Inlet - Pump containment pad	Process - Other	10	8	0	6	0	1	13	0.00						
153	Hawk Inlet - Sewer lift station	Process - Other	5	5	0	6	6	6	7	0.00						
154	Hawk Inlet - Sump from DB-04	Process - Other	12.5	10	12	6	12	2	16	0.00						
155	Hawk Inlet - Transformer	Process - Other	12	12	4	6	12	2	13	0.00						
156	Hawk Inlet - Transformer (Grand)	Process - Other	12	12	4	6	12	2	13	0.00						
157	Hawk Inlet - Transformer and containment	Process - Other	12.5	9	0	6	12	2	15	0.00						
158	Hawk Inlet - Above ground cable tray	Process - Other	51.5	2	0	0	0	0	0	0.00						
159	Hawk Inlet - Poles	Process - Other	2	2	60	0	0	0	6	0.00						
160	Hawk Inlet - Pump station	Process - Other	10	7	12	6	0	0	12	0.00						
161	Hawk Inlet - Ramp	Process - Other	120	20	0	6	12	2	92	0.06						
162	Hawk Inlet - switch gear next to generator building	Process - Other	24	12	8	6	0	0	27	0.01						
163	Hawk Inlet - Transformer-dry	Process - Other	6	4	6	0	0	0	0	0.00						
164	Hawk Inlet - 5000 gallon FT-93	Process - Other	20	10	8	0	0	0	22	0.00						
165	Hawk Inlet - DB-04 surge tank	Process - Other	25	25	0	12	0	0	35	0.01						
166	Hawk Inlet - DB-04 surge tank	Process - Other	25	25	0	12	0	0	35	0.01						
167	Hawk Inlet - diesel FT-21	Process - Other	15.25	6	6	6	0	0	16	0.00						
168	Hawk Inlet - Filter skid	Process - Other	11.5	10	6	6	0	0	15	0.00						
169	Hawk Inlet - Fuel tank	Process - Other	36	36	30	0	0	0	51	0.03						

Closure Cost Estimate
Foundations & Buildings

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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

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Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

170	Hawk Inlet - Fuel tank	Process - Other	8	4	4	6	0	0	9	0.00						
171	Hawk Inlet - Gas FT-22	Process - Other	12	8	4	6	0	0	14	0.00						
172	Hawk Inlet - Oil tank FT-20	Process - Other	8	4	4	0	0	0	0	0.00						
173	Hawk Inlet - Tank FT-23	Process - Other	8	4	4	6	0	0	9	0.00						
174	Hawk Inlet - Tanks next to water treatment building	Process - Other	12	12	18	6	0	0	17	0.00						
175	Hawk Inlet - Used oil tank	Process - Other	25	8	12	0	0	0	0	0.00						
176	Hawk Inlet - Water tank at core shed	Process - Other	16	8	6	0	0	0	0	0.00						
177	Pond D - Wet well	Process - Other	6	6	12	6	12	2	8	0.00						
178	Tails - Degrit Basin	Process - Other	70	20	0	12	12	6	73	0.03						
179	Tails - 1.3 wheel wash	Process - Other	84	46	22	12	12	4	85	0.09						

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 Productivity Sheet)

Conc road from 920_asbuilt_ft.dwg (layer 311400 010 Concrete surface);
Source:
920_asbuilt.dwg
2025-1350-Site23Disturbanceareas.dwg
Hawk Inlet asbuilt 2025.dwg
All acres and reseeding/reveg/ripping calculations are in the Yards sheet
Cost to haul the broken concrete underground is included in the Haul Material sheet
Concentrator height from 30010210.DWG

Growth media and revegetation under Yards

Pages from HECLA - Mill Dry Addition_Submittal_10-21-2022.pdf
PND - 20230609 - 920 Drinking Water Module Foundation (ID 27909).pdf
920 mud waterfall plan and profile design 5-8-23-Plan Profile and Sections.pdf
HGCMC Waste Water Treatment Foundation (2).pdf
Tails degrit basin site and profile design drawing_final 4-26-23.pdf

Closure Cost Estimate
Foundations & Buildings

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Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

Buildings & Foundation - User Input (cont.)																
You must fill in ALL green cells and relevant blue cells in this section for each building or facility																
		Construction Materials		Slab Demolition		Foundation Cover			Growth Media			Revegetation				
	Description (required)	Building Type (select)	Foundation Wall Type (select)	Slab Demo Method (select)	Slab Breaking Equipment Fleet (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarify/ Rip? (select)	Ripping Fleet (select)
1	860 - Exploration Trailer I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
2	860 - Exploration Trailer II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
3	860 - Geology Building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
4	860 - Laboratory Building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
5	860 - Safety Building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
6	860 - Test Cover Building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
7	860 - Training Trailer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
8	860 - Concrete containment	Sm. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete								
9	860 - Sewer lift station	Sm. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete								
10	860 - Shipping Container	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Containers								
11	860 - Core Shed Slab	Lg. concrete	Conc 6 in (150 mm) thick	Break & bury	Med Excavator			Concrete								
12	920 - Admin/Shop Building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
13	920 - Admin/Shop Building Entrance	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
14	920 - Batch Plant	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
15	920 - Batch Plant Feed Hopper	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
16	920 - Batch Plant MCC	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
17	920 - Electrical Shop	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
18	920 - Light Vehicle Shop	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
19	920 - Mill cleaner building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
20	920 - Mill Concentrate loadout	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
21	920 - Mill Concentrator	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
22	920 - Mill E&I Shop	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
23	920 - Mill Maintenance Shop	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
24	920 - Mill Tails Loadout I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
25	920 - Mill Tails Loadout II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
26	920 - Mill Tails Loadout III	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
27	920 - Mill WTP 400 gpm	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
28	920 - Mill WTP 800 gpm	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
29	920 - Mud Waterfall Concrete Vaults (3)	Lg. concrete	Conc 6 in (150 mm) thick	Break & bury	Med Excavator			Concrete								
30	920 - Mill Dry Addition	Lg. mixed	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
31	920 - Mine switch gear building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
32	920 - Ore Pad Shack	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
33	920 - Potable building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
34	920 - Powerhouse Generator Cat I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
35	920 - Powerhouse Generator Cat II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
36	920 - Powerhouse I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
37	920 - Powerhouse II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
38	920 - Powerhouse Turbine	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
39	920 - Shop bulk oil storage	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

40	920 - Shop covered bays	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
41	920 - Shop Tire Storage I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
42	920 - Shop Tire Storage II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
43	920 - Warehouse	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
44	920 - Caisson	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
45	920 - Concrete containment	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
46	920 - Concrete road surface	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
47	920 - DB-01	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
48	920 - DB-01'	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
49	920 - DB-02	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
50	920 - DB-03 - Pond 23	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
51	920 - DB-03' - Pond 23	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
52	920 - DB-09 - Ore Pad	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
53	920 - Fuel Farm Containment	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
54	920 - Main substation	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
55	920 - Mill thickeners concrete pad	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
56	920 - Powerhouse fuel containment pad	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
57	920 - Sediment trap I	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
58	920 - Sediment trap II	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
59	920 - Sewer lift station	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
60	920 - Utility vault I	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
61	920 - Utility vault II	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
62	920 - Utility vault III	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
63	920 - Utility vault IV	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
64	920 - Warehouse microwave tower	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
65	920 - Portal Transformer I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Dry Transformer							
66	920 - Portal Transformer II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Dry Transformer							
67	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
68	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
69	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
70	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
71	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
72	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
73	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
74	920 - Containers	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
75	920 - Batch plant hopper	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
76	920 - Fuel tank FT-01, 24'D x 18'H	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
77	920 - Fuel tank FT-04, 16'D x 32'H	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
78	920 - Fuel tank FT-05, 16'D x 32'H	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
79	920 - Mill bulk thickener	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
80	920 - Mill cleaner building tube	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
81	920 - Mill conveyor	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
82	920 - Mill lead thickener	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
83	920 - Mill tailings thickener	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
84	920 - Mill tails stk	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
85	920 - Mill zinc thickener	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							

Closure Cost Estimate
Foundations & Buildings

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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

86	920 - Ore pad crusher	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel								
87	920 - Sewer treatment plant	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel								
88	920 - Mill ferric chloride tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Tank								
89	920 - Mill sulfuric acid tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Tank								
90	23 Pond - Diesel pump	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
91	23 Pond - Pump house	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
92	23 Pond - Vault	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete								
93	860 - 860 Shotcrete - Eco-block walls	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete								
94	860 - 860 Shotcrete - Eco-block walls	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete								
95	Hawk Inlet - Boat house/boom shed	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
96	Hawk Inlet - Boiler building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
97	Hawk Inlet - Building maintenance shed II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
98	Hawk Inlet - Building maintenance shed I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
99	Hawk Inlet - Cardboard	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
100	Hawk Inlet - Concentrate storage building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
101	Hawk Inlet - Conveyor, headhouse etc.	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
102	Hawk Inlet - Core shed	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
103	Hawk Inlet - Exploration Trailer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
104	Hawk Inlet - Generator building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
105	Hawk Inlet - Housing (Cabin)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
106	Hawk Inlet - Housing (Baranof)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
107	Hawk Inlet - Housing (Admiralty)	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
108	Hawk Inlet - Housing (Skid Row - South Building)	Sm. wood	Block 6 in (150 mm) thick	Break & bury	Med Excavator			Building								
109	Hawk Inlet - Housing (Skid Row - Connecting Roof)	Sm. wood	Block 6 in (150 mm) thick	Break & bury	Med Excavator			Building								
110	Hawk Inlet - Housing (Skid Row - North Building)	Sm. wood	Block 6 in (150 mm) thick	Break & bury	Med Excavator			Building								
111	Hawk Inlet - Housing (Grand Boiler Building)	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
112	Hawk Inlet - Housing (Grand I)	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
113	Hawk Inlet - Housing (Grand II)	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
114	Hawk Inlet - Housing (Hilton)	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
115	Hawk Inlet - Housing (HU 1 of 3)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
116	Hawk Inlet - Housing (HU 2 of 3)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
117	Hawk Inlet - Housing (HU 3 of 3)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
118	Hawk Inlet - Exercise (1 of 3)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
119	Hawk Inlet - Exercise (2 of 3)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
120	Hawk Inlet - Exercise (3 of 3)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
121	Hawk Inlet - South Cannery Dry Addition	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
122	Hawk Inlet - Maintenance building	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
123	Hawk Inlet - Pump house on pilings	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
124	Hawk Inlet - Pump house on pilings	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
125	Hawk Inlet - Trailer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
126	Hawk Inlet - Trailer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
127	Hawk Inlet - Trailer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
128	Hawk Inlet - Trailer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
129	Hawk Inlet - Large Freezer	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
130	Hawk Inlet - Warehouse	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								
131	Hawk Inlet - Warehouse Storage I	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building								

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

132	Hawk Inlet - Warehouse Storage II	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
133	Hawk Inlet - Sea Vans Containers (All)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Sea Vans							
134	Hawk Inlet - Sewer Treatment Addition (Aerobic Tank)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Tank							
135	Hawk Inlet - Sewer Treatment Addition (Anoxic Tank)	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Tank							
136	Hawk Inlet - Sewer Treatment Addition (MBR Tank Contain	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
137	Hawk Inlet - Sewer Treatment Addition (Elev Screen Contai	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
138	Hawk Inlet - Sewer Treatment Addition (Container Foundat	Lg. concrete	Conc 12 in (300 mm) thick	Break & bury	Med Excavator			Concrete							
139	Hawk Inlet - Sewer Treatment Addition (Aerobic Foundatio	Lg. concrete	Conc 12 in (300 mm) thick	Break & bury	Med Excavator			Concrete							
140	Hawk Inlet - Sewer Treatment Addition (Anoxic Foundatio	Lg. concrete	Conc 12 in (300 mm) thick	Break & bury	Med Excavator			Concrete							
141	Hawk Inlet - Tanks Next to Water Treatment Building	Lg. steel	Block 6 in (150 mm) thick	Break & bury	Med Excavator			Building							
142	Hawk Inlet - Foundation for Tanks Next to Water Treatment	Lg. concrete	Conc 6 in (150 mm) thick	Break & bury	Med Excavator			Building							
143	Hawk Inlet - Water treatment building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
144	Hawk Inlet - Wheel wash building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							
145	Hawk Inlet - 22' tank's Pad	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
146	Hawk Inlet - Concrete pad in front of warehouse	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
147	Hawk Inlet - Concrete pad west side of warehouse	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
148	Hawk Inlet - DB-04	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
149	Hawk Inlet - DB-04'	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
150	Hawk Inlet - DB-04 Concrete drain	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
151	Hawk Inlet - Oil containment	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
152	Hawk Inlet - Pump containment pad	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
153	Hawk Inlet - Sewer lift station	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
154	Hawk Inlet - Sump from DB-04	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
155	Hawk Inlet - Transformer	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
156	Hawk Inlet - Transformer (Grand)	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
157	Hawk Inlet - Transformer and containment	Lg. concrete	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Concrete							
158	Hawk Inlet - Above ground cable tray	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Misc.							
159	Hawk Inlet - Poles	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Misc.							
160	Hawk Inlet - Pump station	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Misc.							
161	Hawk Inlet - Ramp	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Misc.							
162	Hawk Inlet - switch gear next to generator building	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Misc.							
163	Hawk Inlet - Transformer-dry	Sm. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Misc.							
164	Hawk Inlet - 5000 gallon FT-93	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
165	Hawk Inlet - DB-04 surge tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
166	Hawk Inlet - DB-04 surge tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
167	Hawk Inlet - diesel FT-21	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
168	Hawk Inlet - Filter skid	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
169	Hawk Inlet - Fuel tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
170	Hawk Inlet - Fuel tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
171	Hawk Inlet - Gas FT-22	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
172	Hawk Inlet - Oil tank FT-20	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
173	Hawk Inlet - Tank FT-23	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
174	Hawk Inlet - Tanks next to water treatment building	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
175	Hawk Inlet - Used oil tank	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
176	Hawk Inlet - Water tank at core shed	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Steel							
177	Pond D - Wet well	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							

Closure Cost Estimate
Foundations & Buildings

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Cost Data: User Data
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
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Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

178	Tails - Degrit Basin	Lg. concrete	Block 6 in (150 mm) thick	Break & bury	Med Excavator			Concrete							
179	Tails - 1.3 wheel wash	Lg. steel	Block 4 in (100 mm) thick	Break & bury	Med Excavator			Building							

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

Closure Cost Estimate
Foundations & Buildings

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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

Buildings & Foundation - Calculations

Building Volume Calculations

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

Slab Demolition Calculations

Minimum 1 hr excavator time for slab demolition

Cover Volume Calculation

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

Ripping/Scarifying Calculations

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

Revegetation

Minimum 1 acre revegetation crew time per area

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost Wall Demolition Cost Slab Demolition	\$1,287,569	\$450,322	N/A	\$1,737,891
	\$148,881	\$125	N/A	\$149,006
	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost Growth Media Placement Cost Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

Building & Foundation Demolition Costs																			
Uses RS Means Heavy Construction Cost Data for building and wall demolition cost calculations. Uses CAT Handbook for slab breaking production.																			
								Building Demolition			Wall Demolition			Slab Demolition			Total Costs		
	Description (required)	Building Footprint (slab area) sqft	Building Volume cu ft	Wall Length ft	Wall Area sq ft	Slab Demolition Fleet	Slab Volume cy	Total Labor Cost \$	Total Equipment Cost \$	Total Building Demolition Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Wall Demolition Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Slab Breaking Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Demolition Costs \$
1	860 - Exploration Trailer I	248	2,976	78	0	345B	0	\$595	\$208	\$803	\$0	\$0	\$0	\$0	\$0	\$0	\$595	\$208	\$803
2	860 - Exploration Trailer II	144	1,728	48	96	345B	3	\$346	\$121	\$467	\$384	\$0	\$384	\$170	\$283	\$453	\$900	\$404	\$1,304
3	860 - Geology Building	1,344	16,128	148	296	345B	25	\$3,226	\$1,129	\$4,355	\$1,184	\$0	\$1,184	\$170	\$283	\$453	\$4,580	\$1,412	\$5,992
4	860 - Laboratory Building	2,464	29,568	200	400	345B	46	\$5,914	\$2,070	\$7,984	\$1,600	\$0	\$1,600	\$170	\$283	\$453	\$7,684	\$2,353	\$10,037
5	860 - Safety Building	1,788	21,450	175	350	345B	33	\$4,290	\$1,502	\$5,792	\$1,400	\$0	\$1,400	\$170	\$283	\$453	\$5,860	\$1,785	\$7,645
6	860 - Test Cover Building	820	9,840	121	0	345B	0	\$1,968	\$689	\$2,657	\$0	\$0	\$0	\$0	\$0	\$0	\$1,968	\$689	\$2,657
7	860 - Training Trailer	881	10,575	148	0	345B	0	\$2,115	\$740	\$2,855	\$0	\$0	\$0	\$0	\$0	\$0	\$2,115	\$740	\$2,855
8	860 - Concrete containment	156	625	50	100	345B	3	\$206	\$56	\$262	\$400	\$0	\$400	\$170	\$283	\$453	\$776	\$339	\$1,115
9	860 - Sewer lift station	49	294	28	0	345B	1	\$97	\$26	\$123	\$0	\$0	\$0	\$170	\$283	\$453	\$267	\$309	\$576
10	860 - Shipping Container	640	5,120	104	0	345B	0	\$1,024	\$358	\$1,382	\$0	\$0	\$0	\$0	\$0	\$0	\$1,024	\$358	\$1,382
11	860 - Core Shed Slab	1,050	0	130	0	345B	19	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
12	920 - Admin/Shop Building	13,450	295,900	469	938	345B	249	\$59,180	\$20,713	\$79,893	\$3,752	\$0	\$3,752	\$713	\$1,189	\$1,902	\$63,645	\$21,902	\$85,547
13	920 - Admin/Shop Building Entrance	220	2,640	64	128	345B	4	\$528	\$185	\$713	\$512	\$0	\$512	\$170	\$283	\$453	\$1,210	\$468	\$1,678
14	920 - Batch Plant	864	19,008	140	280	345B	16	\$3,802	\$1,331	\$5,133	\$1,120	\$0	\$1,120	\$170	\$283	\$453	\$5,092	\$1,614	\$6,706
15	920 - Batch Plant Feed Hopper	800	9,600	120	240	345B	15	\$1,920	\$672	\$2,592	\$960	\$0	\$960	\$170	\$283	\$453	\$3,050	\$955	\$4,005
16	920 - Batch Plant MCC	74	882	35	70	345B	3	\$176	\$62	\$238	\$280	\$0	\$280	\$170	\$283	\$453	\$626	\$345	\$971
17	920 - Electrical Shop	1,312	28,864	146	292	345B	24	\$5,773	\$2,020	\$7,793	\$1,168	\$0	\$1,168	\$170	\$283	\$453	\$7,111	\$2,303	\$9,414
18	920 - Light Vehicle Shop	2,173	47,806	188	376	345B	40	\$9,561	\$3,346	\$12,907	\$1,504	\$0	\$1,504	\$170	\$283	\$453	\$11,235	\$3,629	\$14,864
19	920 - Mill cleaner building	6,840	164,160	348	696	345B	127	\$32,832	\$11,491	\$44,323	\$2,784	\$0	\$2,784	\$356	\$595	\$951	\$35,972	\$12,086	\$48,058
20	920 - Mill Concentrate loadout	6,396	204,672	320	640	345B	237	\$40,934	\$14,327	\$55,261	\$2,560	\$0	\$2,560	\$679	\$1,132	\$1,811	\$44,173	\$15,459	\$59,632
21	920 - Mill Concentrator	20,114	1,407,980	582	1,164	345B	372	\$281,596	\$98,559	\$380,155	\$4,656	\$0	\$4,656	\$1,052	\$1,755	\$2,807	\$287,304	\$100,314	\$387,618
22	920 - Mill E&I Shop	668	8,019	126	252	345B	12	\$1,604	\$561	\$2,165	\$1,008	\$0	\$1,008	\$170	\$283	\$453	\$2,782	\$844	\$3,626
23	920 - Mill Maintenance Shop	1,914	42,108	182	364	345B	35	\$8,422	\$2,948	\$11,370	\$1,456	\$0	\$1,456	\$170	\$283	\$453	\$10,048	\$3,231	\$13,279
24	920 - Mill Tails Loadout I	540	11,880	96	0	345B	20	\$2,376	\$832	\$3,208	\$0	\$0	\$0	\$170	\$283	\$453	\$2,546	\$1,115	\$3,661
25	920 - Mill Tails Loadout II	4,945	158,240	316	0	345B	183	\$31,648	\$11,077	\$42,725	\$0	\$0	\$0	\$526	\$878	\$1,404	\$32,174	\$11,955	\$44,129
26	920 - Mill Tails Loadout III	1,701	54,432	204	0	345B	63	\$10,886	\$3,810	\$14,696	\$0	\$0	\$0	\$187	\$311	\$498	\$11,073	\$4,121	\$15,194
27	920 - Mill WTP 400 gpm	1,550	49,600	174	348	345B	29	\$9,920	\$3,472	\$13,392	\$1,392	\$0	\$1,392	\$170	\$283	\$453	\$11,482	\$3,755	\$15,237
28	920 - Mill WTP 800 gpm	1,973	63,120	192	384	345B	73	\$12,624	\$4,418	\$17,042	\$1,536	\$0	\$1,536	\$204	\$340	\$544	\$14,364	\$4,758	\$19,122
29	920 - Mud Waterfall Concrete Vaults (3)	192	0	64	320	345B	4	\$0	\$0	\$0	\$8,003	\$125	\$8,128	\$170	\$283	\$453	\$8,173	\$408	\$8,581
30	920 - Mill Dry Addition	1,240	86,800	142	0	345B	23	\$19,096	\$6,944	\$26,040	\$0	\$0	\$0	\$170	\$283	\$453	\$19,266	\$7,227	\$26,493
31	920 - Mine switch gear building	583	6,996	97	194	345B	11	\$1,399	\$490	\$1,889	\$776	\$0	\$776	\$170	\$283	\$453	\$2,345	\$773	\$3,118
32	920 - Ore Pad Shack	124	1,485	48	96	345B	2	\$297	\$104	\$401	\$384	\$0	\$384	\$170	\$283	\$453	\$851	\$387	\$1,238
33	920 - Potable building	572	6,864	96	192	345B	11	\$1,373	\$480	\$1,853	\$768	\$0	\$768	\$170	\$283	\$453	\$2,311	\$763	\$3,074
34	920 - Powerhouse Generator Cat I	300	3,600	80	160	345B	6	\$720	\$252	\$972	\$640	\$0	\$640	\$170	\$283	\$453	\$1,530	\$535	\$2,065
35	920 - Powerhouse Generator Cat II	300	3,600	80	160	345B	6	\$720	\$252	\$972	\$640	\$0	\$640	\$170	\$283	\$453	\$1,530	\$535	\$2,065
36	920 - Powerhouse I	5,024	110,528	285	570	345B	93	\$22,106	\$7,737	\$29,843	\$2,280	\$0	\$2,280	\$271	\$453	\$724	\$24,657	\$8,190	\$32,847
37	920 - Powerhouse II	600	7,194	99	0	345B	11	\$1,439	\$504	\$1,943	\$0	\$0	\$0	\$170	\$283	\$453	\$1,609	\$787	\$2,396
38	920 - Powerhouse Turbine	258	3,096	81	162	345B	5	\$619	\$217	\$836	\$648	\$0	\$648	\$170	\$283	\$453	\$1,437	\$500	\$1,937
39	920 - Shop bulk oil storage	1,213	14,553	148	0	345B	22	\$2,911	\$1,019	\$3,930	\$0	\$0	\$0	\$170	\$283	\$453	\$3,081	\$1,302	\$4,383
40	920 - Shop covered bays	1,038	22,836	197	0	345B	0	\$4,567	\$1,599	\$6,166	\$0	\$0	\$0	\$0	\$0	\$0	\$4,567	\$1,599	\$6,166
41	920 - Shop Tire Storage I	1,213	14,553	148	0	345B	45	\$2,911	\$1,019	\$3,930	\$0	\$0	\$0	\$170	\$283	\$453	\$3,081	\$1,302	\$4,383
42	920 - Shop Tire Storage II	1,430	17,159	216	0	345B	26	\$3,432	\$1,201	\$4,633	\$0	\$0	\$0	\$170	\$283	\$453	\$3,602	\$1,484	\$5,086
43	920 - Warehouse	7,800	171,600	404	808	345B	144	\$34,320	\$12,012	\$46,332	\$3,232	\$0	\$3,232	\$407	\$679	\$1,086	\$37,959	\$12,691	\$50,650
44	920 - Caisson	25	300	20	0	345B	0	\$84	\$30	\$114	\$0	\$0	\$0	\$0	\$0	\$0	\$84	\$30	\$114
45	920 - Concrete containment	42	0	26	52	345B	1	\$0	\$0	\$0	\$208	\$0	\$208	\$170	\$283	\$453	\$378	\$283	\$661
46	920 - Concrete road surface	87,000	0	5,860	0	345B	3,222	\$0	\$0	\$0	\$0	\$0	\$0	\$9,111	\$15,203	\$24,314	\$9,111	\$15,203	\$24,314

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost Wall Demolition Cost Slab Demolition	\$1,287,569	\$450,322	N/A	\$1,737,891
	\$148,881	\$125	N/A	\$149,006
	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost Growth Media Placement Cost Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

47	920 - DB-01	840	0	164	1,968	345B	31	\$0	\$0	\$0	\$7,872	\$0	\$7,872	\$170	\$283	\$453	\$8,042	\$283	\$8,325
48	920 - DB-01'	840	0	164	1,968	345B	31	\$0	\$0	\$0	\$7,872	\$0	\$7,872	\$170	\$283	\$453	\$8,042	\$283	\$8,325
49	920 - DB-02	1,280	0	168	1,008	345B	47	\$0	\$0	\$0	\$4,032	\$0	\$4,032	\$170	\$283	\$453	\$4,202	\$283	\$4,485
50	920 - DB-03 - Pond 23	960	0	184	1,104	345B	36	\$0	\$0	\$0	\$4,416	\$0	\$4,416	\$170	\$283	\$453	\$4,586	\$283	\$4,869
51	920 - DB-03' - Pond 23	960	0	184	1,104	345B	36	\$0	\$0	\$0	\$4,416	\$0	\$4,416	\$170	\$283	\$453	\$4,586	\$283	\$4,869
52	920 - DB-09 - Ore Pad	1,260	0	176	1,056	345B	47	\$0	\$0	\$0	\$4,224	\$0	\$4,224	\$170	\$283	\$453	\$4,394	\$283	\$4,677
53	920 - Fuel Farm Containment	4,000	0	260	1,040	345B	74	\$0	\$0	\$0	\$4,160	\$0	\$4,160	\$204	\$340	\$544	\$4,364	\$340	\$4,704
54	920 - Main substation	2,000	24,000	180	360	345B	37	\$6,720	\$2,400	\$9,120	\$1,440	\$0	\$1,440	\$170	\$283	\$453	\$8,330	\$2,683	\$11,013
55	920 - Mill thickeners concrete pad	8,250	0	370	0	345B	306	\$0	\$0	\$0	\$0	\$0	\$0	\$865	\$1,444	\$2,309	\$865	\$1,444	\$2,309
56	920 - Powerhouse fuel containment pad	3,920	0	252	504	345B	73	\$0	\$0	\$0	\$2,016	\$0	\$2,016	\$204	\$340	\$544	\$2,220	\$340	\$2,560
57	920 - Sediment trap I	55	330	31	0	345B	1	\$92	\$33	\$125	\$0	\$0	\$0	\$170	\$283	\$453	\$262	\$316	\$578
58	920 - Sediment trap II	66	396	35	0	345B	1	\$111	\$40	\$151	\$0	\$0	\$0	\$170	\$283	\$453	\$281	\$323	\$604
59	920 - Sewer lift station	180	1,440	56	448	345B	3	\$403	\$144	\$547	\$1,792	\$0	\$1,792	\$170	\$283	\$453	\$2,365	\$427	\$2,792
60	920 - Utility vault I	52	314	30	180	345B	1	\$88	\$31	\$119	\$720	\$0	\$720	\$170	\$283	\$453	\$978	\$314	\$1,292
61	920 - Utility vault II	45	270	28	168	345B	1	\$76	\$27	\$103	\$672	\$0	\$672	\$170	\$283	\$453	\$918	\$310	\$1,228
62	920 - Utility vault III	21	126	19	114	345B	0	\$35	\$13	\$48	\$456	\$0	\$456	\$0	\$0	\$0	\$491	\$13	\$504
63	920 - Utility vault IV	91	546	40	240	345B	2	\$153	\$55	\$208	\$960	\$0	\$960	\$170	\$283	\$453	\$1,283	\$338	\$1,621
64	920 - Warehouse microwave tower	150	1,800	50	0	345B	6	\$504	\$180	\$684	\$0	\$0	\$0	\$170	\$283	\$453	\$674	\$463	\$1,137
65	920 - Portal Transformer I	45	180	28	0	345B	1	\$36	\$13	\$49	\$0	\$0	\$0	\$170	\$283	\$453	\$206	\$296	\$502
66	920 - Portal Transformer II	104	416	42	0	345B	2	\$83	\$29	\$112	\$0	\$0	\$0	\$170	\$283	\$453	\$253	\$312	\$565
67	920 - Containers	160	1,280	56	0	345B	0	\$320	\$90	\$410	\$0	\$0	\$0	\$0	\$0	\$0	\$320	\$90	\$410
68	920 - Containers	160	1,280	56	0	345B	3	\$320	\$90	\$410	\$0	\$0	\$0	\$170	\$283	\$453	\$490	\$373	\$863
69	920 - Containers	1,040	12,480	144	0	345B	0	\$3,120	\$874	\$3,994	\$0	\$0	\$0	\$0	\$0	\$0	\$3,120	\$874	\$3,994
70	920 - Containers	2,560	30,720	224	0	345B	0	\$7,680	\$2,150	\$9,830	\$0	\$0	\$0	\$0	\$0	\$0	\$7,680	\$2,150	\$9,830
71	920 - Containers	2,560	30,720	224	0	345B	0	\$7,680	\$2,150	\$9,830	\$0	\$0	\$0	\$0	\$0	\$0	\$7,680	\$2,150	\$9,830
72	920 - Containers	160	1,920	56	0	345B	0	\$480	\$134	\$614	\$0	\$0	\$0	\$0	\$0	\$0	\$480	\$134	\$614
73	920 - Containers	160	1,920	56	0	345B	0	\$480	\$134	\$614	\$0	\$0	\$0	\$0	\$0	\$0	\$480	\$134	\$614
74	920 - Containers	160	1,920	56	0	345B	0	\$480	\$134	\$614	\$0	\$0	\$0	\$0	\$0	\$0	\$480	\$134	\$614
75	920 - Batch plant hopper	612	7,344	106	0	345B	23	\$1,469	\$514	\$1,983	\$0	\$0	\$0	\$170	\$283	\$453	\$1,639	\$797	\$2,436
76	920 - Fuel tank FT-01, 24'D x 18'H	441	7,938	84	0	345B	0	\$1,588	\$556	\$2,144	\$0	\$0	\$0	\$0	\$0	\$0	\$1,588	\$556	\$2,144
77	920 - Fuel tank FT-04, 16'D x 32'H	196	6,272	56	0	345B	0	\$1,254	\$439	\$1,693	\$0	\$0	\$0	\$0	\$0	\$0	\$1,254	\$439	\$1,693
78	920 - Fuel tank FT-05, 16'D x 32'H	196	6,272	56	0	345B	0	\$1,254	\$439	\$1,693	\$0	\$0	\$0	\$0	\$0	\$0	\$1,254	\$439	\$1,693
79	920 - Mill bulk thickener	961	11,532	124	0	345B	36	\$2,306	\$807	\$3,113	\$0	\$0	\$0	\$170	\$283	\$453	\$2,476	\$1,090	\$3,566
80	920 - Mill cleaner building tube	320	3,840	96	0	345B	0	\$768	\$269	\$1,037	\$0	\$0	\$0	\$0	\$0	\$0	\$768	\$269	\$1,037
81	920 - Mill conveyor	1,026	5,130	246	0	345B	0	\$1,026	\$359	\$1,385	\$0	\$0	\$0	\$0	\$0	\$0	\$1,026	\$359	\$1,385
82	920 - Mill lead thickener	420	5,043	82	0	345B	16	\$1,009	\$353	\$1,362	\$0	\$0	\$0	\$170	\$283	\$453	\$1,179	\$636	\$1,815
83	920 - Mill tailings thickener	3,721	44,652	244	0	345B	69	\$8,930	\$3,126	\$12,056	\$0	\$0	\$0	\$204	\$340	\$544	\$9,134	\$3,466	\$12,600
84	920 - Mill tails stk	361	4,332	76	0	345B	7	\$866	\$303	\$1,169	\$0	\$0	\$0	\$170	\$283	\$453	\$1,036	\$586	\$1,622
85	920 - Mill zinc thickener	961	11,532	124	0	345B	18	\$2,306	\$807	\$3,113	\$0	\$0	\$0	\$170	\$283	\$453	\$2,476	\$1,090	\$3,566
86	920 - Ore pad crusher	378	4,536	78	156	345B	7	\$907	\$318	\$1,225	\$624	\$0	\$624	\$170	\$283	\$453	\$1,701	\$601	\$2,302
87	920 - Sewer treatment plant	960	11,520	152	0	345B	0	\$2,304	\$806	\$3,110	\$0	\$0	\$0	\$0	\$0	\$0	\$2,304	\$806	\$3,110
88	920 - Mill ferric chloride tank	169	2,028	52	0	345B	3	\$406	\$142	\$548	\$0	\$0	\$0	\$170	\$283	\$453	\$576	\$425	\$1,001
89	920 - Mill sulfuric acid tank	169	2,028	52	0	345B	3	\$406	\$142	\$548	\$0	\$0	\$0	\$170	\$283	\$453	\$576	\$425	\$1,001
90	23 Pond - Diesel pump	174	2,091	55	0	345B	3	\$418	\$146	\$564	\$0	\$0	\$0	\$170	\$283	\$453	\$588	\$429	\$1,017
91	23 Pond - Pump house	650	7,800	102	204	345B	12	\$1,560	\$546	\$2,106	\$816	\$0	\$816	\$170	\$283	\$453	\$2,546	\$829	\$3,375
92	23 Pond - Vault	16	96	16	96	345B	0	\$27	\$10	\$37	\$384	\$0	\$384	\$0	\$0	\$0	\$411	\$10	\$421
93	860 - 860 Shotcrete - Eco-block walls	30	360	34	408	345B	0	\$101	\$36	\$137	\$1,632	\$0	\$1,632	\$0	\$0	\$0	\$1,733	\$36	\$1,769
94	860 - 860 Shotcrete - Eco-block walls	80	960	84	1,008	345B	0	\$269	\$96	\$365	\$4,032	\$0	\$4,032	\$0	\$0	\$0	\$4,301	\$96	\$4,397
95	Hawk Inlet - Boat house/boom shed	984	11,808	130	0	345B	0	\$2,362	\$827	\$3,189	\$0	\$0	\$0	\$0	\$0	\$0	\$2,362	\$827	\$3,189
96	Hawk Inlet - Boiler building	816	9,792	116	232	345B	15	\$1,958	\$685	\$2,643	\$928	\$0	\$928	\$170	\$283	\$453	\$3,056	\$968	\$4,024
97	Hawk Inlet - Building maintenance shed II	783	9,397	127	254	345B	15	\$1,879	\$658	\$2,537	\$1,016	\$0	\$1,016	\$170	\$283	\$453	\$3,065	\$941	\$4,006
98	Hawk Inlet - Building maintenance shed I	821	9,849	132	264	345B	15	\$1,970	\$689	\$2,659	\$1,056	\$0	\$1,056	\$170	\$283	\$453	\$3,196	\$972	\$4,168
99	Hawk Inlet - Cardboard	300	3,600	74	148	345B	6	\$720	\$252	\$972	\$592	\$0	\$592	\$170	\$283	\$453	\$1,482	\$535	\$2,017
100	Hawk Inlet - Concentrate storage building	45,382	1,089,156	885	1,770	345B	840	\$217,831	\$76,241	\$294,072	\$7,080	\$0	\$7,080	\$2,375	\$3,964	\$6,339	\$227,286	\$80,205	\$307,491

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

101	Hawk Inlet - Conveyor, headhouse etc.	3,941	47,286	253	0	345B	0	\$9,457	\$3,310	\$12,767	\$0	\$0	\$0	\$0	\$0	\$0	\$9,457	\$3,310	\$12,767
102	Hawk Inlet - Core shed	5,408	64,895	312	624	345B	100	\$12,979	\$4,543	\$17,522	\$2,496	\$0	\$2,496	\$288	\$481	\$769	\$15,763	\$5,024	\$20,787
103	Hawk Inlet - Exploration Trailer	851	10,206	150	0	345B	0	\$2,041	\$714	\$2,755	\$0	\$0	\$0	\$0	\$0	\$0	\$2,041	\$714	\$2,755
104	Hawk Inlet - Generator building	945	11,340	129	258	345B	18	\$2,268	\$794	\$3,062	\$1,032	\$0	\$1,032	\$170	\$283	\$453	\$3,470	\$1,077	\$4,547
105	Hawk Inlet - Housing (Cabin)	240	3,600	64	0	345B	0	\$720	\$252	\$972	\$0	\$0	\$0	\$0	\$0	\$0	\$720	\$252	\$972
106	Hawk Inlet - Housing (Baranof)	3,271	91,594	284	0	345B	0	\$18,319	\$6,412	\$24,731	\$0	\$0	\$0	\$0	\$0	\$0	\$18,319	\$6,412	\$24,731
107	Hawk Inlet - Housing (Admiralty)	3,271	91,594	284	0	345B	0	\$25,646	\$9,159	\$34,805	\$0	\$0	\$0	\$0	\$0	\$0	\$25,646	\$9,159	\$34,805
108	Hawk Inlet - Housing (Skid Row - South Building)	660	8,580	106	0	345B	0	\$2,145	\$601	\$2,746	\$0	\$0	\$0	\$0	\$0	\$0	\$2,145	\$601	\$2,746
109	Hawk Inlet - Housing (Skid Row - Connecting Roof)	1,584	17,424	162	0	345B	0	\$4,356	\$1,220	\$5,576	\$0	\$0	\$0	\$0	\$0	\$0	\$4,356	\$1,220	\$5,576
110	Hawk Inlet - Housing (Skid Row - North Building)	540	5,940	94	0	345B	0	\$1,485	\$416	\$1,901	\$0	\$0	\$0	\$0	\$0	\$0	\$1,485	\$416	\$1,901
111	Hawk Inlet - Housing (Grand Boiler Building)	250	3,000	70	140	345B	5	\$840	\$300	\$1,140	\$560	\$0	\$560	\$170	\$283	\$453	\$1,570	\$583	\$2,153
112	Hawk Inlet - Housing (Grand I)	9,300	372,000	398	0	345B	172	\$104,160	\$37,200	\$141,360	\$0	\$0	\$0	\$492	\$821	\$1,313	\$104,652	\$38,021	\$142,673
113	Hawk Inlet - Housing (Grand II)	2,275	91,000	232	0	345B	42	\$25,480	\$9,100	\$34,580	\$0	\$0	\$0	\$170	\$283	\$453	\$25,650	\$9,383	\$35,033
114	Hawk Inlet - Housing (Hilton)	3,450	110,400	290	580	345B	64	\$30,912	\$11,040	\$41,952	\$2,320	\$0	\$2,320	\$187	\$311	\$498	\$33,419	\$11,351	\$44,770
115	Hawk Inlet - Housing (HU 1 of 3)	478	4,061	112	0	345B	0	\$812	\$284	\$1,096	\$0	\$0	\$0	\$0	\$0	\$0	\$812	\$284	\$1,096
116	Hawk Inlet - Housing (HU 2 of 3)	478	4,061	112	0	345B	0	\$812	\$284	\$1,096	\$0	\$0	\$0	\$0	\$0	\$0	\$812	\$284	\$1,096
117	Hawk Inlet - Housing (HU 3 of 3)	478	4,061	112	0	345B	0	\$812	\$284	\$1,096	\$0	\$0	\$0	\$0	\$0	\$0	\$812	\$284	\$1,096
118	Hawk Inlet - Exercise (1 of 3)	478	4,061	112	0	345B	0	\$812	\$284	\$1,096	\$0	\$0	\$0	\$0	\$0	\$0	\$812	\$284	\$1,096
119	Hawk Inlet - Exercise (2 of 3)	478	4,061	112	0	345B	0	\$812	\$284	\$1,096	\$0	\$0	\$0	\$0	\$0	\$0	\$812	\$284	\$1,096
120	Hawk Inlet - Exercise (3 of 3)	478	4,061	112	0	345B	0	\$812	\$284	\$1,096	\$0	\$0	\$0	\$0	\$0	\$0	\$812	\$284	\$1,096
121	Hawk Inlet - South Cannery Dry Addition	812	12,180	114	0	345B	0	\$2,436	\$853	\$3,289	\$0	\$0	\$0	\$0	\$0	\$0	\$2,436	\$853	\$3,289
122	Hawk Inlet - Maintenance building	1,713	20,554	169	338	345B	32	\$5,755	\$2,055	\$7,810	\$1,352	\$0	\$1,352	\$170	\$283	\$453	\$7,277	\$2,338	\$9,615
123	Hawk Inlet - Pump house on pilings	20	240	18	0	345B	0	\$67	\$24	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$67	\$24	\$91
124	Hawk Inlet - Pump house on pilings	1,944	23,333	177	354	345B	36	\$6,533	\$2,333	\$8,866	\$1,416	\$0	\$1,416	\$170	\$283	\$453	\$8,119	\$2,616	\$10,735
125	Hawk Inlet - Trailer	851	8,505	150	0	345B	0	\$1,701	\$595	\$2,296	\$0	\$0	\$0	\$0	\$0	\$0	\$1,701	\$595	\$2,296
126	Hawk Inlet - Trailer	504	5,040	108	0	345B	0	\$1,008	\$353	\$1,361	\$0	\$0	\$0	\$0	\$0	\$0	\$1,008	\$353	\$1,361
127	Hawk Inlet - Trailer	400	4,000	100	0	345B	0	\$800	\$280	\$1,080	\$0	\$0	\$0	\$0	\$0	\$0	\$800	\$280	\$1,080
128	Hawk Inlet - Trailer	310	3,096	83	0	345B	0	\$619	\$217	\$836	\$0	\$0	\$0	\$0	\$0	\$0	\$619	\$217	\$836
129	Hawk Inlet - Large Freezer	625	5,000	100	0	345B	12	\$1,000	\$350	\$1,350	\$0	\$0	\$0	\$170	\$283	\$453	\$1,170	\$633	\$1,803
130	Hawk Inlet - Warehouse	5,640	124,080	308	616	345B	104	\$24,816	\$8,686	\$33,502	\$2,464	\$0	\$2,464	\$288	\$481	\$769	\$27,568	\$9,167	\$36,735
131	Hawk Inlet - Warehouse Storage I	940	11,280	208	416	345B	17	\$2,256	\$790	\$3,046	\$1,664	\$0	\$1,664	\$170	\$283	\$453	\$4,090	\$1,073	\$5,163
132	Hawk Inlet - Warehouse Storage II	1,880	22,560	228	0	345B	35	\$4,512	\$1,579	\$6,091	\$0	\$0	\$0	\$170	\$283	\$453	\$4,682	\$1,862	\$6,544
133	Hawk Inlet - Sea Vans Containers (All)	12,480	149,760	3,136	0	345B	0	\$29,952	\$10,483	\$40,435	\$0	\$0	\$0	\$0	\$0	\$0	\$29,952	\$10,483	\$40,435
134	Hawk Inlet - Sewer Treatment Addition (Aerobic Tank)	156	1,172	50	0	345B	0	\$234	\$82	\$316	\$0	\$0	\$0	\$0	\$0	\$0	\$234	\$82	\$316
135	Hawk Inlet - Sewer Treatment Addition (Anoxic Tank)	90	677	38	0	345B	0	\$135	\$47	\$182	\$0	\$0	\$0	\$0	\$0	\$0	\$135	\$47	\$182
136	Hawk Inlet - Sewer Treatment Addition (MBR Tank Contain	320	3,040	96	0	345B	0	\$608	\$213	\$821	\$0	\$0	\$0	\$0	\$0	\$0	\$608	\$213	\$821
137	Hawk Inlet - Sewer Treatment Addition (Elev Screen Contai	320	3,040	96	0	345B	0	\$608	\$213	\$821	\$0	\$0	\$0	\$0	\$0	\$0	\$608	\$213	\$821
138	Hawk Inlet - Sewer Treatment Addition (Container Foundat	892	0	126	0	345B	17	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
139	Hawk Inlet - Sewer Treatment Addition (Aerobic Foundatio	26	0	30	0	345B	3	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
140	Hawk Inlet - Sewer Treatment Addition (Anoxic Foundation	24	0	28	0	345B	3	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
141	Hawk Inlet - Tanks Next to Water Treatment Building	144	18,000	48	0	345B	0	\$3,600	\$1,260	\$4,860	\$0	\$0	\$0	\$0	\$0	\$0	\$3,600	\$1,260	\$4,860
142	Hawk Inlet - Foundation for Tanks Next to Water Treatment	6,375	0	320	0	345B	118	\$0	\$0	\$0	\$0	\$0	\$0	\$339	\$566	\$905	\$339	\$566	\$905
143	Hawk Inlet - Water treatment building	983	21,632	126	252	345B	18	\$4,326	\$1,514	\$5,840	\$1,008	\$0	\$1,008	\$170	\$283	\$453	\$5,504	\$1,797	\$7,301
144	Hawk Inlet - Wheel wash building	1,870	41,140	178	356	345B	35	\$8,228	\$2,880	\$11,108	\$1,424	\$0	\$1,424	\$170	\$283	\$453	\$9,822	\$3,163	\$12,985
145	Hawk Inlet - 22' tank's Pad	1,809	0	188	0	345B	67	\$0	\$0	\$0	\$0	\$0	\$0	\$187	\$311	\$498	\$187	\$311	\$498
146	Hawk Inlet - Concrete pad in front of warehouse	1,540	0	194	0	345B	29	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
147	Hawk Inlet - Concrete pad west side of warehouse	440	0	84	0	345B	8	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
148	Hawk Inlet - DB-04	960	0	184	1,104	345B	36	\$0	\$0	\$0	\$4,416	\$0	\$4,416	\$170	\$283	\$453	\$4,586	\$283	\$4,869
149	Hawk Inlet - DB-04'	960	0	184	1,104	345B	36	\$0	\$0	\$0	\$4,416	\$0	\$4,416	\$170	\$283	\$453	\$4,586	\$283	\$4,869
150	Hawk Inlet - DB-04 Concrete drain	74	0	55	0	345B	1	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
151	Hawk Inlet - Oil containment	74	148	78	156	345B	1	\$41	\$15	\$56	\$624	\$0	\$624	\$170	\$283	\$453	\$835	\$298	\$1,133
152	Hawk Inlet - Pump containment pad	80	0	36	36	345B	1	\$0	\$0	\$0	\$144	\$0	\$144	\$170	\$283	\$453	\$314	\$283	\$597
153	Hawk Inlet - Sewer lift station	25	0	20	120	345B	0	\$0	\$0	\$0	\$480	\$0	\$480	\$0	\$0	\$0	\$480	\$0	\$480
154	Hawk Inlet - Sump from DB-04	125	1,500	45	90	345B	2	\$420	\$150	\$570	\$360	\$0	\$360	\$170	\$283	\$453	\$950	\$433	\$1,383

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost Wall Demolition Cost Slab Demolition	\$1,287,569	\$450,322	N/A	\$1,737,891
	\$148,881	\$125	N/A	\$149,006
	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost Growth Media Placement Cost Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

155	Hawk Inlet - Transformer	144	576	48	96	345B	3	\$161	\$58	\$219	\$384	\$0	\$384	\$170	\$283	\$453	\$715	\$341	\$1,056
156	Hawk Inlet - Transformer (Grand)	144	576	48	96	345B	3	\$161	\$58	\$219	\$384	\$0	\$384	\$170	\$283	\$453	\$715	\$341	\$1,056
157	Hawk Inlet - Transformer and containment	113	0	43	86	345B	2	\$0	\$0	\$0	\$344	\$0	\$344	\$170	\$283	\$453	\$514	\$283	\$797
158	Hawk Inlet - Above ground cable tray	103	0	107	0	345B	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
159	Hawk Inlet - Poles	4	240	8	0	345B	0	\$60	\$17	\$77	\$0	\$0	\$0	\$0	\$0	\$0	\$60	\$17	\$77
160	Hawk Inlet - Pump station	65	780	33	0	345B	1	\$195	\$55	\$250	\$0	\$0	\$0	\$170	\$283	\$453	\$365	\$338	\$703
161	Hawk Inlet - Ramp	2,400	0	280	560	345B	44	\$0	\$0	\$0	\$2,240	\$0	\$2,240	\$170	\$283	\$453	\$2,410	\$283	\$2,693
162	Hawk Inlet - switch gear next to generator building	288	2,304	72	0	345B	5	\$576	\$161	\$737	\$0	\$0	\$0	\$170	\$283	\$453	\$746	\$444	\$1,190
163	Hawk Inlet - Transformer-dry	24	144	20	0	345B	0	\$36	\$10	\$46	\$0	\$0	\$0	\$0	\$0	\$0	\$36	\$10	\$46
164	Hawk Inlet - 5000 gallon FT-93	200	1,600	60	0	345B	0	\$320	\$112	\$432	\$0	\$0	\$0	\$0	\$0	\$0	\$320	\$112	\$432
165	Hawk Inlet - DB-04 surge tank	625	0	100	0	345B	23	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
166	Hawk Inlet - DB-04 surge tank	625	0	100	0	345B	23	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$283	\$453	\$170	\$283	\$453
167	Hawk Inlet - diesel FT-21	88	526	42	0	345B	2	\$105	\$37	\$142	\$0	\$0	\$0	\$170	\$283	\$453	\$275	\$320	\$595
168	Hawk Inlet - Filter skid	115	690	43	0	345B	2	\$138	\$48	\$186	\$0	\$0	\$0	\$170	\$283	\$453	\$308	\$331	\$639
169	Hawk Inlet - Fuel tank	1,296	38,880	144	0	345B	0	\$7,776	\$2,722	\$10,498	\$0	\$0	\$0	\$0	\$0	\$0	\$7,776	\$2,722	\$10,498
170	Hawk Inlet - Fuel tank	32	128	24	0	345B	1	\$26	\$9	\$35	\$0	\$0	\$0	\$170	\$283	\$453	\$196	\$292	\$488
171	Hawk Inlet - Gas FT-22	90	360	39	0	345B	2	\$72	\$25	\$97	\$0	\$0	\$0	\$170	\$283	\$453	\$242	\$308	\$550
172	Hawk Inlet - Oil tank FT-20	32	128	24	0	345B	0	\$26	\$9	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$26	\$9	\$35
173	Hawk Inlet - Tank FT-23	32	128	24	0	345B	1	\$26	\$9	\$35	\$0	\$0	\$0	\$170	\$283	\$453	\$196	\$292	\$488
174	Hawk Inlet - Tanks next to water treatment building	144	2,592	48	0	345B	3	\$518	\$181	\$699	\$0	\$0	\$0	\$170	\$283	\$453	\$688	\$464	\$1,152
175	Hawk Inlet - Used oil tank	200	2,400	66	0	345B	0	\$480	\$168	\$648	\$0	\$0	\$0	\$0	\$0	\$0	\$480	\$168	\$648
176	Hawk Inlet - Water tank at core shed	132	792	49	0	345B	0	\$158	\$55	\$213	\$0	\$0	\$0	\$0	\$0	\$0	\$158	\$55	\$213
177	Pond D - Wet well	36	432	24	48	345B	1	\$86	\$30	\$116	\$192	\$0	\$192	\$170	\$283	\$453	\$448	\$313	\$761
178	Tails - Degrit Basin	1,400	0	180	1,080	345B	52	\$0	\$0	\$0	\$4,558	\$0	\$4,558	\$170	\$283	\$453	\$4,728	\$283	\$5,011
179	Tails - 1.3 wheel wash	3,864	85,008	260	1,040	345B	143	\$17,002	\$5,951	\$22,953	\$4,160	\$0	\$4,160	\$407	\$679	\$1,086	\$21,569	\$6,630	\$28,199
		6,100,831				8,414		\$1,287,569	\$450,322	\$1,737,891	\$148,881	\$125	\$149,006	\$36,206	\$60,347	\$96,553	\$1,472,656	\$510,794	\$1,983,450

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

Building & Foundation - Foundation Cover and Growth Media Costs																				
		Foundation Cover								Growth Media								Total Cover & Growth Media Costs		
	Description (required)	Cover Volume cy	Cover Replacement 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 Replacement 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	860 - Exploration Trailer I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
2	860 - Exploration Trailer II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
3	860 - Geology Building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
4	860 - Laboratory Building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
5	860 - Safety Building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
6	860 - Test Cover Building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
7	860 - Training Trailer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
8	860 - Concrete containment						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
9	860 - Sewer lift station						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
10	860 - Shipping Container						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
11	860 - Core Shed Slab						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
12	920 - Admin/Shop Building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
13	920 - Admin/Shop Building Entrance						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
14	920 - Batch Plant						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
15	920 - Batch Plant Feed Hopper						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
16	920 - Batch Plant MCC						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
17	920 - Electrical Shop						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
18	920 - Light Vehicle Shop						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
19	920 - Mill cleaner building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
20	920 - Mill Concentrate loadout						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
21	920 - Mill Concentrator						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
22	920 - Mill E&I Shop						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
23	920 - Mill Maintenance Shop						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
24	920 - Mill Tails Loadout I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
25	920 - Mill Tails Loadout II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
26	920 - Mill Tails Loadout III						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
27	920 - Mill WTP 400 gpm						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
28	920 - Mill WTP 800 gpm						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
29	920 - Mud Waterfall Concrete Vaults (3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
30	920 - Mill Dry Addition						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
31	920 - Mine switch gear building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
32	920 - Ore Pad Shack						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
33	920 - Potable building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
34	920 - Powerhouse Generator Cat I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
35	920 - Powerhouse Generator Cat II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
36	920 - Powerhouse I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
37	920 - Powerhouse II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
38	920 - Powerhouse Turbine						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
39	920 - Shop bulk oil storage						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
40	920 - Shop covered bays						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
41	920 - Shop Tire Storage I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
42	920 - Shop Tire Storage II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
43	920 - Warehouse						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
44	920 - Caisson						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
45	920 - Concrete containment						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
46	920 - Concrete road surface						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
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Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

47	920 - DB-01						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
48	920 - DB-01'						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
49	920 - DB-02						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
50	920 - DB-03 - Pond 23						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
51	920 - DB-03' - Pond 23						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
52	920 - DB-09 - Ore Pad						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
53	920 - Fuel Farm Containment						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
54	920 - Main substation						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
55	920 - Mill thickeners concrete pad						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
56	920 - Powerhouse fuel containment pad						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
57	920 - Sediment trap I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
58	920 - Sediment trap II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
59	920 - Sewer lift station						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
60	920 - Utility vault I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
61	920 - Utility vault II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
62	920 - Utility vault III						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
63	920 - Utility vault IV						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
64	920 - Warehouse microwave tower						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
65	920 - Portal Transformer I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
66	920 - Portal Transformer II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
67	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
68	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
69	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
70	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
71	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
72	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
73	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
74	920 - Containers						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
75	920 - Batch plant hopper						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
76	920 - Fuel tank FT-01, 24'D x 18'H						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
77	920 - Fuel tank FT-04, 16'D x 32'H						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
78	920 - Fuel tank FT-05, 16'D x 32'H						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
79	920 - Mill bulk thickener						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
80	920 - Mill cleaner building tube						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
81	920 - Mill conveyor						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
82	920 - Mill lead thickener						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
83	920 - Mill tailings thickener						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
84	920 - Mill tails stk						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
85	920 - Mill zinc thickener						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
86	920 - Ore pad crusher						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
87	920 - Sewer treatment plant						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
88	920 - Mill ferric chloride tank						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
89	920 - Mill sulfuric acid tank						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
90	23 Pond - Diesel pump						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
91	23 Pond - Pump house						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
92	23 Pond - Vault						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
93	860 - 860 Shotcrete - Eco-block walls						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
94	860 - 860 Shotcrete - Eco-block walls						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
95	Hawk Inlet - Boat house/boom shed						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
96	Hawk Inlet - Boiler building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
97	Hawk Inlet - Building maintenance shed II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
98	Hawk Inlet - Building maintenance shed I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
99	Hawk Inlet - Cardboard						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
100	Hawk Inlet - Concentrate storage building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

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Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

101	Hawk Inlet - Conveyor, headhouse etc.						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
102	Hawk Inlet - Core shed						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
103	Hawk Inlet - Exploration Trailer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
104	Hawk Inlet - Generator building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
105	Hawk Inlet - Housing (Cabin)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
106	Hawk Inlet - Housing (Baranof)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
107	Hawk Inlet - Housing (Admiralty)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
108	Hawk Inlet - Housing (Skid Row - South Building)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
109	Hawk Inlet - Housing (Skid Row - Connecting Roof)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
110	Hawk Inlet - Housing (Skid Row - North Building)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
111	Hawk Inlet - Housing (Grand Boiler Building)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
112	Hawk Inlet - Housing (Grand I)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
113	Hawk Inlet - Housing (Grand II)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
114	Hawk Inlet - Housing (Hilton)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
115	Hawk Inlet - Housing (HU 1 of 3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
116	Hawk Inlet - Housing (HU 2 of 3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
117	Hawk Inlet - Housing (HU 3 of 3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
118	Hawk Inlet - Exercise (1 of 3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
119	Hawk Inlet - Exercise (2 of 3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
120	Hawk Inlet - Exercise (3 of 3)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
121	Hawk Inlet - South Cannery Dry Addition						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
122	Hawk Inlet - Maintenance building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
123	Hawk Inlet - Pump house on pilings						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
124	Hawk Inlet - Pump house on pilings						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
125	Hawk Inlet - Trailer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
126	Hawk Inlet - Trailer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
127	Hawk Inlet - Trailer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
128	Hawk Inlet - Trailer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
129	Hawk Inlet - Large Freezer						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
130	Hawk Inlet - Warehouse						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
131	Hawk Inlet - Warehouse Storage I						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
132	Hawk Inlet - Warehouse Storage II						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
133	Hawk Inlet - Sea Vans Containers (All)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
134	Hawk Inlet - Sewer Treatment Addition (Aerobic Tank)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
135	Hawk Inlet - Sewer Treatment Addition (Anoxic Tank)						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
136	Hawk Inlet - Sewer Treatment Addition (MBR Tank Contain						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
137	Hawk Inlet - Sewer Treatment Addition (Elev Screen Contain						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
138	Hawk Inlet - Sewer Treatment Addition (Container Foundat						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
139	Hawk Inlet - Sewer Treatment Addition (Aerobic Foundatio						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
140	Hawk Inlet - Sewer Treatment Addition (Anoxic Foundation						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
141	Hawk Inlet - Tanks Next to Water Treatment Building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
142	Hawk Inlet - Foundation for Tanks Next to Water Treatment						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
143	Hawk Inlet - Water treatment building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
144	Hawk Inlet - Wheel wash building						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
145	Hawk Inlet - 22' tank's Pad						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
146	Hawk Inlet - Concrete pad in front of warehouse						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
147	Hawk Inlet - Concrete pad west side of warehouse						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
148	Hawk Inlet - DB-04						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
149	Hawk Inlet - DB-04'						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
150	Hawk Inlet - DB-04 Concrete drain						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
151	Hawk Inlet - Oil containment						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
152	Hawk Inlet - Pump containment pad						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
153	Hawk Inlet - Sewer lift station						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
154	Hawk Inlet - Sump from DB-04						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

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Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

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Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

155	Hawk Inlet - Transformer					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
156	Hawk Inlet - Transformer (Grand)					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
157	Hawk Inlet - Transformer and containment					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
158	Hawk Inlet - Above ground cable tray					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
159	Hawk Inlet - Poles					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
160	Hawk Inlet - Pump station					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
161	Hawk Inlet - Ramp					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
162	Hawk Inlet - switch gear next to generator building					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
163	Hawk Inlet - Transformer-dry					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
164	Hawk Inlet - 5000 gallon FT-93					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
165	Hawk Inlet - DB-04 surge tank					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
166	Hawk Inlet - DB-04 surge tank					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
167	Hawk Inlet - diesel FT-21					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
168	Hawk Inlet - Filter skid					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
169	Hawk Inlet - Fuel tank					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
170	Hawk Inlet - Fuel tank					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
171	Hawk Inlet - Gas FT-22					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
172	Hawk Inlet - Oil tank FT-20					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
173	Hawk Inlet - Tank FT-23					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
174	Hawk Inlet - Tanks next to water treatment building					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
175	Hawk Inlet - Used oil tank					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
176	Hawk Inlet - Water tank at core shed					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
177	Pond D - Wet well					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
178	Tails - Degrit Basin					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
179	Tails - 1.3 wheel wash					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

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Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

Building & Foundation - Scarifying/Revegetation Costs																
					Scarifying/Ripping			Revegetation				Total Scarify & Revegation Costs				
	Description (required)	Flat Area acres	Area Long Dimension ft	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revetgation Material Cost \$	Total Revegetation Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Costs \$	
1	860 - Exploration Trailer I	0.10	32		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	860 - Exploration Trailer II	0.10	17		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	860 - Geology Building	0.10	53		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	860 - Laboratory Building	0.10	71		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	860 - Safety Building	0.10	64		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	860 - Test Cover Building	0.10	45		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	860 - Training Trailer	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	860 - Concrete containment	0.10	18		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	860 - Sewer lift station	0.10	10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	860 - Shipping Container	0.10	86		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	860 - Core Shed Slab	0.10	46		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	920 - Admin/Shop Building	0.30	168		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	920 - Admin/Shop Building Entrance	0.10	24		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	920 - Batch Plant	0.10	56		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	920 - Batch Plant Feed Hopper	0.10	45		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	920 - Batch Plant MCC	0.10	13		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	920 - Electrical Shop	0.10	52		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	920 - Light Vehicle Shop	0.10	67		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	920 - Mill cleaner building	0.20	129		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	920 - Mill Concentrate loadout	0.10	113		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	920 - Mill Concentrator	0.50	211		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
22	920 - Mill E&I Shop	0.10	51		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	920 - Mill Maintenance Shop	0.10	67		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	920 - Mill Tails Loadout I	0.10	35		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	920 - Mill Tails Loadout II	0.10	123		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	920 - Mill Tails Loadout III	0.10	84		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	920 - Mill WTP 400 gpm	0.10	62		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	920 - Mill WTP 800 gpm	0.10	72		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	920 - Mud Waterfall Concrete Vaults (3)	0.10	25		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	920 - Mill Dry Addition	0.10	51		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	920 - Mine switch gear building	0.10	34		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
32	920 - Ore Pad Shack	0.10	18		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
33	920 - Potable building	0.10	34		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	920 - Powerhouse Generator Cat I	0.10	32		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	920 - Powerhouse Generator Cat II	0.10	32		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	920 - Powerhouse I	0.10	101		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
37	920 - Powerhouse II	0.10	35		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	920 - Powerhouse Turbine	0.10	33		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
39	920 - Shop bulk oil storage	0.10	55		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	920 - Shop covered bays	0.10	87		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
41	920 - Shop Tire Storage I	0.10	55		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
42	920 - Shop Tire Storage II	0.10	94		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
43	920 - Warehouse	0.20	150		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44	920 - Caisson	0.10	7		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	920 - Concrete containment	0.10	9		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
46	920 - Concrete road surface	2.00	410		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

47	920 - DB-01	0.10	71		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
48	920 - DB-01'	0.10	71		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
49	920 - DB-02	0.10	67		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
50	920 - DB-03 - Pond 23	0.10	81		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
51	920 - DB-03' - Pond 23	0.10	81		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
52	920 - DB-09 - Ore Pad	0.10	71		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
53	920 - Fuel Farm Containment	0.10	80		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
54	920 - Main substation	0.10	64		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
55	920 - Mill thickeners concrete pad	0.20	62		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
56	920 - Powerhouse fuel containment pad	0.10	90		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
57	920 - Sediment trap I	0.10	11		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
58	920 - Sediment trap II	0.10	13		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
59	920 - Sewer lift station	0.10	21		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
60	920 - Utility vault I	0.10	11		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
61	920 - Utility vault II	0.10	10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
62	920 - Utility vault III	0.10	7		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63	920 - Utility vault IV	0.10	15		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
64	920 - Warehouse microwave tower	0.10	18		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	920 - Portal Transformer I	0.10	10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
66	920 - Portal Transformer II	0.10	15		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
67	920 - Containers	0.10	23		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
68	920 - Containers	0.10	22		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
69	920 - Containers	0.10	56		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
70	920 - Containers	0.10	86		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
71	920 - Containers	0.10	86		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
72	920 - Containers	0.10	20		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
73	920 - Containers	0.10	20		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
74	920 - Containers	0.10	20		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
75	920 - Batch plant hopper	0.10	40		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
76	920 - Fuel tank FT-01, 24'D x 18'H	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
77	920 - Fuel tank FT-04, 16'D x 32'H	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
78	920 - Fuel tank FT-05, 16'D x 32'H	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
79	920 - Mill bulk thickener	0.10	44		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
80	920 - Mill cleaner building tube	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
81	920 - Mill conveyor	0.10	114		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
82	920 - Mill lead thickener	0.10	29		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
83	920 - Mill tailings thickener	0.10	86		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
84	920 - Mill tails stk	0.10	27		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85	920 - Mill zinc thickener	0.10	44		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
86	920 - Ore pad crusher	0.10	28		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
87	920 - Sewer treatment plant	0.10	62		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
88	920 - Mill ferric chloride tank	0.10	18		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
89	920 - Mill sulfuric acid tank	0.10	18		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90	23 Pond - Diesel pump	0.10	20		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
91	23 Pond - Pump house	0.10	36		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
92	23 Pond - Vault	0.10	6		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
93	860 - 860 Shotcrete - Eco-block walls	0.10	15		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
94	860 - 860 Shotcrete - Eco-block walls	0.10	40		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95	Hawk Inlet - Boat house/boom shed	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
96	Hawk Inlet - Boiler building	0.10	42		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
97	Hawk Inlet - Building maintenance shed II	0.10	50		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
98	Hawk Inlet - Building maintenance shed I	0.10	52		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
99	Hawk Inlet - Cardboard	0.10	28		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
100	Hawk Inlet - Concentrate storage building	1.00	324		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

101	Hawk Inlet - Conveyor, headhouse etc.	0.10	90		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
102	Hawk Inlet - Core shed	0.10	116		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
103	Hawk Inlet - Exploration Trailer	0.10	62		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
104	Hawk Inlet - Generator building	0.10	48		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
105	Hawk Inlet - Housing (Cabin)	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
106	Hawk Inlet - Housing (Baranof)	0.10	116		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
107	Hawk Inlet - Housing (Admiralty)	0.10	116		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
108	Hawk Inlet - Housing (Skid Row - South Building)	0.10	39		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	Hawk Inlet - Housing (Skid Row - Connecting Roof)	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
110	Hawk Inlet - Housing (Skid Row - North Building)	0.10	34		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
111	Hawk Inlet - Housing (Grand Boiler Building)	0.10	26		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
112	Hawk Inlet - Housing (Grand I)	0.20	145		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
113	Hawk Inlet - Housing (Grand II)	0.10	94		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
114	Hawk Inlet - Housing (Hilton)	0.10	119		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
115	Hawk Inlet - Housing (HU 1 of 3)	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
116	Hawk Inlet - Housing (HU 2 of 3)	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
117	Hawk Inlet - Housing (HU 3 of 3)	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
118	Hawk Inlet - Exercise (1 of 3)	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
119	Hawk Inlet - Exercise (2 of 3)	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
120	Hawk Inlet - Exercise (3 of 3)	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
121	Hawk Inlet - South Cannery Dry Addition	0.10	40		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
122	Hawk Inlet - Maintenance building	0.10	61		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
123	Hawk Inlet - Pump house on pilings	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
124	Hawk Inlet - Pump house on pilings	0.10	62		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
125	Hawk Inlet - Trailer	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
126	Hawk Inlet - Trailer	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
127	Hawk Inlet - Trailer	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
128	Hawk Inlet - Trailer	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
129	Hawk Inlet - Large Freezer	0.10	35		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
130	Hawk Inlet - Warehouse	0.10	112		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
131	Hawk Inlet - Warehouse Storage I	0.10	95		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
132	Hawk Inlet - Warehouse Storage II	0.10	96		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
133	Hawk Inlet - Sea Vans Containers (All)	0.30	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
134	Hawk Inlet - Sewer Treatment Addition (Aerobic Tank)	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
135	Hawk Inlet - Sewer Treatment Addition (Anoxic Tank)	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
136	Hawk Inlet - Sewer Treatment Addition (MBR Tank Contain	0.10	41		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
137	Hawk Inlet - Sewer Treatment Addition (Elev Screen Cont	0.10	41		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
138	Hawk Inlet - Sewer Treatment Addition (Container Foundat	0.10	47		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
139	Hawk Inlet - Sewer Treatment Addition (Aerobic Foundatio	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
140	Hawk Inlet - Sewer Treatment Addition (Anoxic Foundation	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
141	Hawk Inlet - Tanks Next to Water Treatment Building	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
142	Hawk Inlet - Foundation for Tanks Next to Water Treatment	0.10	113		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
143	Hawk Inlet - Water treatment building	0.10	45		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
144	Hawk Inlet - Wheel wash building	0.10	65		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
145	Hawk Inlet - 22' tank's Pad	0.10	72		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
146	Hawk Inlet - Concrete pad in front of warehouse	0.10	80		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
147	Hawk Inlet - Concrete pad west side of warehouse	0.10	30		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
148	Hawk Inlet - DB-04	0.10	81		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
149	Hawk Inlet - DB-04'	0.10	81		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
150	Hawk Inlet - DB-04 Concrete drain	0.10	25		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
151	Hawk Inlet - Oil containment	0.10	37		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
152	Hawk Inlet - Pump containment pad	0.10	13		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
153	Hawk Inlet - Sewer lift station	0.10	7		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
154	Hawk Inlet - Sump from DB-04	0.10	16		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Foundations & Buildings

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,287,569	\$450,322	N/A	\$1,737,891
Wall Demolition Cost	\$148,881	\$125	N/A	\$149,006
Slab Demolition	\$36,206	\$60,347	N/A	\$96,553
Subtotal Demolition	\$1,472,656	\$510,794	\$0	\$1,983,450
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$1,472,656	\$510,794	\$0	\$1,983,450

155	Hawk Inlet - Transformer	0.10	13		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
156	Hawk Inlet - Transformer (Grand)	0.10	13		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
157	Hawk Inlet - Transformer and containment	0.10	15		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
158	Hawk Inlet - Above ground cable tray	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
159	Hawk Inlet - Poles	0.10	6		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
160	Hawk Inlet - Pump station	0.10	12		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
161	Hawk Inlet - Ramp	0.10	92		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
162	Hawk Inlet - switch gear next to generator building	0.10	27		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
163	Hawk Inlet - Transformer-dry	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
164	Hawk Inlet - 5000 gallon FT-93	0.10	22		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
165	Hawk Inlet - DB-04 surge tank	0.10	35		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
166	Hawk Inlet - DB-04 surge tank	0.10	35		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
167	Hawk Inlet - diesel FT-21	0.10	16		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
168	Hawk Inlet - Filter skid	0.10	15		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
169	Hawk Inlet - Fuel tank	0.10	51		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
170	Hawk Inlet - Fuel tank	0.10	9		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
171	Hawk Inlet - Gas FT-22	0.10	14		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
172	Hawk Inlet - Oil tank FT-20	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
173	Hawk Inlet - Tank FT-23	0.10	9		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
174	Hawk Inlet - Tanks next to water treatment building	0.10	17		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
175	Hawk Inlet - Used oil tank	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
176	Hawk Inlet - Water tank at core shed	0.10	0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
177	Pond D - Wet well	0.10	8		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
178	Tails - Degrit Basin	0.10	73		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
179	Tails - 1.3 wheel wash	0.10	85		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		21.90			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Other Demo & Equip Removal

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Other Demolition and Equipment Removal - Cost Summary				
	Labor	Equipment	Materials	Totals
Other Demolition	\$0	\$0	\$0	\$0
Equipment Removal	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Color Code Key	
User Input - Direct Input User Input - Pull Down List Program Constant (can override) Program Calculated Value	Direct Input
	Pull Down Selection
	Alternate Input
	Locked Cell - Formula or Reference

Other Demolition									
Facility Description									
	Description (required)	ID Code	Type	Quantity	Units	Labor Unit Cost \$	Equipment Unit Cost \$	Material Unit Cost \$	Total Cost \$
1	Guard rail removal along roads		Site Facilities	5000	LF				
						\$0	\$0	\$0	

Notes:

Closure Cost Estimate
Other Demo & Equip Removal

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
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Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Other Demolition and Equipment Removal - Cost Summary				
	Labor	Equipment	Materials	Totals
Other Demolition	\$0	\$0	\$0	\$0
Equipment Removal	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Equipment & Material Removal									
Facility Description									
	Description (required)	ID Code	Type	Quantity	Units	Labor Unit Cost (\$)	Equipment Unit Cost (\$)	Material Unit Cost (\$)	Total Cost (\$)
						\$0	\$0	\$0	

Notes:

Closure Cost Estimate
Sediment & Drainage Control

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Diversion Ditches - User Input																
			Diversions Ditches							Revegetation			Liner and Rip-Rap Installation			
	Description (required)	ID Code	Diversion Length ft	Diversion Depth ft	Ditch Bottom Width ft	Ditch Sideslope Angle _H:1V	Excavate Volume (if calculated elsewhere) cy	Excavating Material Condition (select)	Excavating Equipment Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Liner Area S.Y.	Liner Type (select)	Rip-Rap Area S.Y.	Rip-Rap Type (select type)

Notes:

Closure Cost Estimate
Sediment & Drainage Control

Project Name: SRCE Update 2026 - Reclamation Plan
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File Name: HGCMC SRCE Model_Updated 202603.xlsm
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction Diversion Ditch Liner Diversion Ditch Rip-Rap Sed Pond Construct/Regrade Liner Installation Sed Pond Cover Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
	\$0	\$0	N/A	\$0
	\$0	\$0	\$0	\$0
	\$0	\$0	N/A	\$0
	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation Sediment Pond Revegetation	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Sediment/Evaporation Pond Construction/Removal - User Input													
			Sediment Ponds								Growth Media		
	Description (required)	ID Code	Pond Width ft	Pond/Berm Length ft	Berm Height ft	Crest Width ft	Sideslope Angle _H:1V	Final Area (if calculated elsewhere) acres	Regrade Volume (if calculated elsewhere) cy	Cover Volume (if calculated elsewhere) cy	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Pond to Borrow % grade

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

Closure Cost Estimate
Sediment & Drainage Control

Project Name: SRCE Update 2026 - Reclamation Plan
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Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Sediment/Evaporation Pond Construction/Removal - User Input (cont.)													
		Sediment Ponds				Growth Media			Revegetation			Ripping/Scarifying	
	Description (required)	Excavating Material Condition (select)	Material Type (select)	Excavating Equipment Fleet (select)	Liner Type (select)	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)	Scarify/ Ripping Fleet (select)

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

Closure Cost Estimate

Sediment & Drainage Control

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Drainage Control - Calculations

Diversion Ditch Volume Calculation

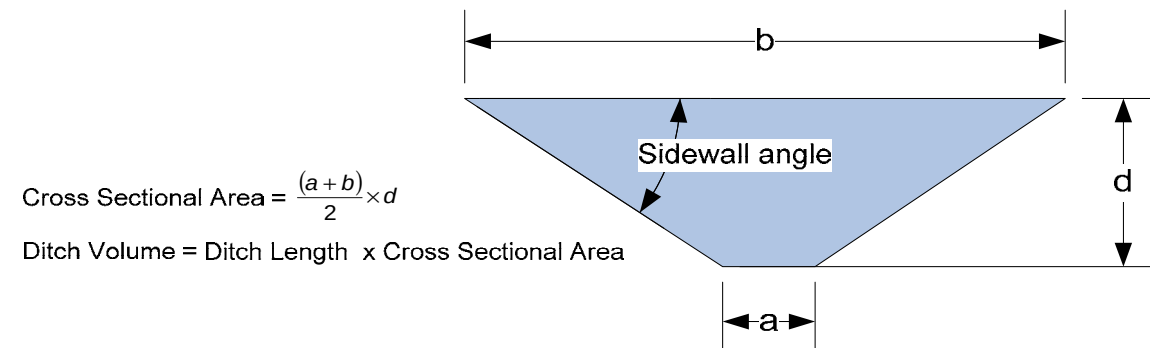


Figure 1 - Ditch Volume Calculation

- 1) Assume 20% swell for excavations
- 2) Assumes heavy duty trenching bucket is used

Sediment/Evaporation Pond Construction Calculation

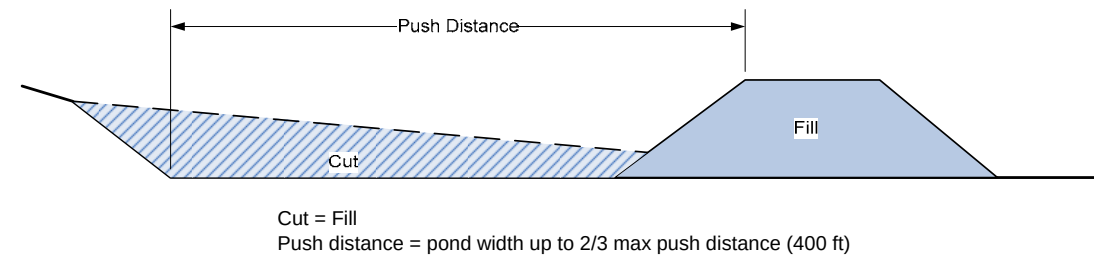


Figure 2 - Sediment Ponds

- 1) Assume balanced cut-to-fill for berm construction
- 2) Include cost for liner, if required.
- 3) Include line items for removal, if necessary.
- 4) Assume 20% swell for excavations
- 5) Minimum 1 hr ripping/scarifying per area
- 6) Minimum 1 acre revegetation crew time per area

Closure Cost Estimate
Sediment & Drainage Control

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Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Diversion Ditches - Excavation Costs																
									Liner Installation				Rip-Rap Installation			
	Description (required)	Diversion Ditch Volume LCY	Diversion Ditch Equipment	Corrected Excavator Productivity LCY/hr	Total Hours	Diversion Ditch Labor Cost \$	Diversion Ditch Equipment Cost \$	Total Diversion Ditch Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Liner Cost \$	Labor Cost \$	Equipment Cost \$	Material Cost \$	Total Cost \$
						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Notes: LCM assumes 20% swell from ditch volume

Closure Cost Estimate
Sediment & Drainage Control

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Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Diversion Ditches - Revegetation Costs						
	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost \$	Total Revegetation Cost \$
			\$0	\$0	\$0	\$0

Closure Cost Estimate
Sediment & Drainage Control

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Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Sediment/Evaporation Ponds - Construction/Regrading Costs																
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83)											Earthwork			Liner		
	Description (required)	Regrading Volume cy	Sed/Evap Pond Equipment	Dozing Distance (see above) ft	Uncorrected Dozer Productivity LCY/hr	Grade Correction	Density Correction	Excavating Material	Corrected Productivity LCY/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Constr/ Regrading Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$
											\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Sediment & Drainage Control

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Sediment/Evaporation Ponds - Growth Media Costs									
		Growth Media							
	Description (required)	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 Cover Placement Cost \$
							\$0	\$0	\$0

Closure Cost Estimate
Sediment & Drainage Control

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$0	\$0	N/A	\$0
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$0	\$0	\$0	\$0
Sed Pond Construct/Regrade	\$0	\$0	N/A	\$0
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Sediment/Evaporation Ponds - Revegetation Costs												
	Description (required)	Surface Area acres	Long Ripping Distance ft	Area Width ft	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 \$
					0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Process Ponds

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Process Ponds - Cost Summary				
	Labor	Equipment	Materials	Totals
Backfilling Costs	\$111,823	\$153,894	N/A	\$265,717
Growth Media Placement Costs	\$7,701	\$10,535	N/A	\$18,236
Liner Cutting & Folding Costs	\$8,444	\$2,203	N/A	\$10,647
Subtotal Earthworks	\$127,968	\$166,632	\$0	\$294,600
Revegetation Costs	\$0	\$183	\$15,018	\$15,201
TOTALS	\$127,968	\$166,815	\$15,018	\$309,801

Process Ponds - User Input														
You must fill in ALL green cells and relevant blue cells in this section for each pond														
Facility Description			Pond Dimensions (1)					Backfill - (If trucks are used) (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	Pond C lower (reclaimed during closure of other facility)		74	74	2.0	3.0	0.10	0%						
2	Pond C upper (lined) (reclaimed during closure of other facility)		38	38	2.0	3.0	0.10	0%						
3	Pond A (reclaimed during closure of other facility)		140	140	6.0	3.0	0.40	0%						
4	Pond 23 (reclaimed during closure of other facility)		140	140	2.0	3.0	0.10	0%						
5	Pond D		90	90	4.0	3.0	0.20	0%	500	-5%		12	500	-5%
6	Pond 7		389.5	390	24.0	3.0	3.48	100%	500	-5%		12	500	-5%
7	Pond 10		595	286	24.0	3.0	3.90	100%	500	-5%		12	500	-5%
8	Pond 11		185	65	11.5	0.0	0.28	100%	500	-5%		12	500	-5%

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)
The Reclamation and Closure Plan describes closure years of ponds. Pond 10 will be reclaimed in Year 11. Pond 7 will be reclaimed in Year 100. All other ponds will be removed during closure of other facilities.
New storage pond liner in Other User sheet.

Closure Cost Estimate
Process Ponds

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Process Ponds - Cost Summary				
	Labor	Equipment	Materials	Totals
Backfilling Costs	\$111,823	\$153,894	N/A	\$265,717
Growth Media Placement Costs	\$7,701	\$10,535	N/A	\$18,236
Liner Cutting & Folding Costs	\$8,444	\$2,203	N/A	\$10,647
Subtotal Earthworks	\$127,968	\$166,632	\$0	\$294,600
Revegetation Costs	\$0	\$183	\$15,018	\$15,201
TOTALS	\$127,968	\$166,815	\$15,018	\$309,801

Process Ponds - User Input (cont.)											
		Liner	Backfill			Growth Media			Revegetation		
	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	Pond C lower (reclaimed during closure of other facility)										
2	Pond C upper (lined) (reclaimed during closure of other facility)	12.0									
3	Pond A (reclaimed during closure of other facility)										
4	Pond 23 (reclaimed during closure of other facility)										
5	Pond D		Alluvium	Small Truck		Alluvium	Small Truck		Mix 1	None	
6	Pond 7		Alluvium	Med Truck		Alluvium	Med Truck		Mix 1	None	
7	Pond 10	24.0	Alluvium	Med Truck		Alluvium	Med Truck		Mix 1	None	
8	Pond 11		Alluvium	Med Truck		Alluvium	Med Truck		Mix 1	None	

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

Closure Cost Estimate Process Ponds

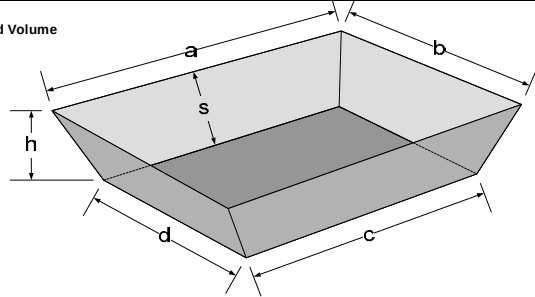
Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1
 Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Process Ponds - Cost Summary				
	Labor	Equipment	Materials	Totals
Backfilling Costs	\$111,823	\$153,894	N/A	\$265,717
Growth Media Placement Costs	\$7,701	\$10,535	N/A	\$18,236
Liner Cutting & Folding Costs	\$8,444	\$2,203	N/A	\$10,647
Subtotal Earthworks	\$127,968	\$166,632	\$0	\$294,600
Revegetation Costs	\$0	\$183	\$15,018	\$15,201
TOTALS	\$127,968	\$166,815	\$15,018	\$309,801

Process Ponds - Calculations

Pond Volume Calculation

Figure 1 - Pond Volume



Area and Volume of the Frustrum of a Pyramid

$$\text{Surface Area} = ab + cd + (a+b+c+d) \times \frac{s}{2}$$

$$\text{Volume} = \frac{h(ab + cd + \sqrt{abcd})}{3}$$

Revegetation Calculations

Minimum 1 acre revegetation crew time per area

Closure Cost Estimate
Process Ponds

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Model Version: Version 1.4.1
Cost Data: User Data
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Process Ponds - Cost Summary				
	Labor	Equipment	Materials	Totals
Backfilling Costs	\$111,823	\$153,894	N/A	\$265,717
Growth Media Placement Costs	\$7,701	\$10,535	N/A	\$18,236
Liner Cutting & Folding Costs	\$8,444	\$2,203	N/A	\$10,647
Subtotal Earthworks	\$127,968	\$166,632	\$0	\$294,600
Revegetation Costs	\$0	\$183	\$15,018	\$15,201
TOTALS	\$127,968	\$166,815	\$15,018	\$309,801

Process Ponds - Liner Cutting and Folding					
	Description (required)	Crew Hours hrs	Total Labor Cost \$	Total Equipment Cost \$	Total Cover Cost \$
1	Pond C lower (reclaimed during closure of other facility)		\$0	\$0	\$0
2	Pond C upper (lined) (reclaimed during closure of other fac	12	\$2,815	\$734	\$3,549
3	Pond A (reclaimed during closure of other facility)		\$0	\$0	\$0
4	Pond 23 (reclaimed during closure of other facility)		\$0	\$0	\$0
5	Pond D		\$0	\$0	\$0
6	Pond 7		\$0	\$0	\$0
7	Pond 10	24	\$5,629	\$1,469	\$7,098
8	Pond 11		\$0	\$0	\$0
		36	\$8,444	\$2,203	\$10,647

Closure Cost Estimate
Process Ponds

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Process Ponds - Cost Summary				
	Labor	Equipment	Materials	Totals
Backfilling Costs	\$111,823	\$153,894	N/A	\$265,717
Growth Media Placement Costs	\$7,701	\$10,535	N/A	\$18,236
Liner Cutting & Folding Costs	\$8,444	\$2,203	N/A	\$10,647
Subtotal Earthworks	\$127,968	\$166,632	\$0	\$294,600
Revegetation Costs	\$0	\$183	\$15,018	\$15,201
TOTALS	\$127,968	\$166,815	\$15,018	\$309,801

Process Ponds - Backfill and Growth Media Costs																		
		Pond Backfill								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 Topsoiling Cost \$	
1	Pond C lower (reclaimed during closure of other facility)	0					\$0	\$0	\$0						\$0	\$0	\$0	
2	Pond C upper (lined) (reclaimed during closure of other facility)	0					\$0	\$0	\$0						\$0	\$0	\$0	
3	Pond A (reclaimed during closure of other facility)	0					\$0	\$0	\$0						\$0	\$0	\$0	
4	Pond 23 (reclaimed during closure of other facility)	0					\$0	\$0	\$0						\$0	\$0	\$0	
5	Pond D	0					\$0	\$0	\$0	323	740/988G	589	2	1	\$335	\$398	\$733	
6	Pond 7	91,142	740/988G	589	2	155	\$51,894	\$71,418	\$123,312	5,614	740/988G	589	2	10	\$3,348	\$4,608	\$7,956	
7	Pond 10	100,091	740/988G	589	2	170	\$56,916	\$78,329	\$135,245	6,292	740/988G	589	2	11	\$3,683	\$5,068	\$8,751	
8	Pond 11	5,122	740/988G	589	2	9	\$3,013	\$4,147	\$7,160	452	740/988G	589	2	1	\$335	\$461	\$796	
		196,355				334	\$111,823	\$153,894	\$265,717	12,681				23	\$7,701	\$10,535	\$18,236	

Closure Cost Estimate
Process Ponds

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Process Ponds - Cost Summary				
	Labor	Equipment	Materials	Totals
Backfilling Costs	\$111,823	\$153,894	N/A	\$265,717
Growth Media Placement Costs	\$7,701	\$10,535	N/A	\$18,236
Liner Cutting & Folding Costs	\$8,444	\$2,203	N/A	\$10,647
Subtotal Earthworks	\$127,968	\$166,632	\$0	\$294,600
Revegetation Costs	\$0	\$183	\$15,018	\$15,201
TOTALS	\$127,968	\$166,815	\$15,018	\$309,801

Process Ponds - Revegetation Costs						
	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
1	Pond C lower (reclaimed during closure of other facility)	0.10	\$0	\$0	\$0	\$0
2	Pond C upper (lined) (reclaimed during closure of other fac	0.10	\$0	\$0	\$0	\$0
3	Pond A (reclaimed during closure of other facility)	0.40	\$0	\$0	\$0	\$0
4	Pond 23 (reclaimed during closure of other facility)	0.10	\$0	\$0	\$0	\$0
5	Pond D	0.20	\$0	\$20	\$380	\$400
6	Pond 7	3.50	\$0	\$68	\$6,654	\$6,722
7	Pond 10	3.90	\$0	\$76	\$7,414	\$7,490
8	Pond 11	0.30	\$0	\$20	\$570	\$590
		8.60	\$0	\$183	\$15,018	\$15,201

Closure Cost Estimate
Landfills

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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

Closure Cost Estimate
Landfills

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Landfills - User Input											
You must fill in ALL green cells and relevant blue cells in this section for each landfill											
Facility Description			Physical (1)			Cover			Growth Media		
	Description (required)	ID Code	Final Landfill Footprint acres	Average Long Dimension (ripping distance) ft	Regrade Volume (calculated elsewhere) cy	Cover Thickness in	Distance from Cover Borrow ft	Slope from Landfill to Cover Borrow % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Landfill to Stockpile % grade

- 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)



Closure Cost Estimate
Landfills

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Landfills - User Input (cont.)																
You must fill in ALL green cells and relevant blue cells in this section for each landfill																
		Grading				Cover			Growth Media			Revegetation				
	Description (required)	Dozing Material Condition (select)	Landfill Material Type (select)	Grading Equipment Fleet (select)	Slot/ Side-by-Side (select)	Cover Material Type (select)	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 (select)	Scarify/ Rip? (select)	Scarifying/ Ripping Fleet (select)

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

Closure Cost Estimate Landfills

Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1
 Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Landfills - Calculations	
Dozing, Ripping/Scarifying & Revegetation Calculations Dozing: Dozing distance = 2/3 of the 600 feet maximum from Caterpillar Handbook or 400 feet Assumes flat push (grade correction factor = 1) Minimum 1 hr per area Ripping: Flat area width = Final flat area ÷ Average long dimensions Number of passes = Flat area width ÷ Grader width Travel distance = Number of passes x Average long dimensions Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time) Minimum 1 hr per area Revegetation: Minimum 1 acre revegetation crew time per area	

Closure Cost Estimate Landfills

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Landfills - Regrading Costs												
Productivity = Dozer Productivity x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side)												
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Uncorrected Dozer Productivity cy/hr	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity LCY/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
										\$0	\$0	\$0

Closure Cost Estimate Landfills

Project Name: SRCE Update 2026 - Reclamation Plan
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 Model Version: Version 1.4.1
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 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Landfills - Cover and Growth Media Costs																	
		Cover Placement								Growth Media Placement							
Description (required)	Cover Volume ft	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost \$	Cover Equipment Cost \$	Total Cover Cost \$	Growth Media Volume ft	Growth Media Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Topsoiling Cost \$	
						\$0	\$0	\$0						\$0	\$0	\$0	

Closure Cost Estimate Landfills

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Landfills - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Landfills - Scarifying/Revegetation Costs											
	Description (required)	Surface Area acres	Long Dimension ft	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
					\$0	\$0	\$0	\$0	\$0	\$0	\$0

Closure Cost Estimate
Yards, Etc.

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Yards, Etc. - Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$183,233	\$167,357	N/A	\$350,590
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$37,497	\$51,605	N/A	\$89,102
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$220,730	\$218,962		\$439,692
Revegetation Cost	\$0	\$4,188	\$407,766	\$411,954
TOTALS	\$220,730	\$223,150	\$407,766	\$851,646

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

Yards, 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	Type	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	920 mill and portal area		Yard	24.00	1,000	39,000				12	500	-5.0
2	Waste rock site D		Yard	8.00	600	13,000						
3	Waste rock site 1350 and portal area		Yard	3.50	400	6,000						
4	1160 tank		Yard	1.00	200	2,000						
5	960 waste rock area		Yard	1.00	200	2,000						
6	Waste rock site C and 860 area		Yard	3.00	400	5,000						
7	Waste rock site E		Yard	10.00	700	16,000						
8	Hawk inlet and marine load out area		Yard	14.50	800	23,000				12	500	-5.0
9	Young Bay Dock facility		Yard	1.00	200	2,000				12	500	-5.0
10	Topsoil stockpiles and borrow areas		Yard	31.00	1,200							
11	Tailings (disturbance area minus design footprint)		Yard	65.50	1,700							
12	Power Line Right-of-way		Yard	32.00								
13	Waste rock site 23		Yard	20.00	100							

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)

Acresages from 2012 reclamation plan except the incorporated TDF expansion

**Closure Cost Estimate
Yards, Etc.**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Yards, Etc. - Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$183,233	\$167,357	N/A	\$350,590
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$37,497	\$51,605	N/A	\$89,102
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$220,730	\$218,962		\$439,692
Revegetation Cost	\$0	\$4,188	\$407,766	\$411,954
TOTALS	\$220,730	\$223,150	\$407,766	\$851,646

Yards, Etc. - User Input (cont.)															
You must fill in ALL green cells and relevant blue cells in this section for each building or facility															
		Grading			Cover			Growth Media			Revegetation				
	Description (required)	Dozing Material Condition (select)	Dozing Material Type (select)	Grading 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	920 mill and portal area	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
2	Waste rock site D	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
3	Waste rock site 1350 and portal area	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
4	1160 tank	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
5	960 waste rock area	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
6	Waste rock site C and 860 area	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
7	Waste rock site E	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
8	Hawk inlet and marine load out area	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
9	Young Bay Dock facility	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
10	Topsoil stockpiles and borrow areas	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
11	Tailings (disturbance area minus design footprint)	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
12	Power Line Right-of-way	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	
13	Waste rock site 23	1	Alluvium	Small				Alluvium	Med Truck		Mix 1	None		No	

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

Closure Cost Estimate
Yards, Etc.

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Yards, Etc. - Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$183,233	\$167,357	N/A	\$350,590
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$37,497	\$51,605	N/A	\$89,102
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$220,730	\$218,962		\$439,692
Revegetation Cost	\$0	\$4,188	\$407,766	\$411,954
TOTALS	\$220,730	\$223,150	\$407,766	\$851,646

Yards, Etc. - Calculations

Grading Calculations

Average push distance assumed to be 2/3 of the 600 feet maximum from Catepillar Handbook or 400 feet
Material assumed to be loose stockpile (1.2 productivity factor)
Slope assumed to be 0 to 5% (1.0 productivity factor)

Cover Volume Calculation

Yard area x cover thickness

Ripping/Scarifying Calculations

Flat area width = Final flat area ÷ Average long dimensions
Number of passes = Flat area width ÷ Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
Minimum 1 hr ripping/scarifying per area

Revegetation

Minimum 1 acre revegetation crew time per area

**Closure Cost Estimate
Yards, Etc.**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
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Model Version: Version 1.4.1
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Yards, Etc. - Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$183,233	\$167,357	N/A	\$350,590
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$37,497	\$51,605	N/A	\$89,102
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$220,730	\$218,962		\$439,692
Revegetation Cost	\$0	\$4,188	\$407,766	\$411,954
TOTALS	\$220,730	\$223,150	\$407,766	\$851,646

Yards, Etc. - Regrading Costs												
Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side)												
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft.	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	920 mill and portal area	39,000	400	102	1.0	1.0	0.79	50	780	\$66,167	\$60,434	\$126,601
2	Waste rock site D	13,000	400	102	1.0	1.0	0.79	50	260	\$22,056	\$20,145	\$42,201
3	Waste rock site 1350 and portal area	6,000	400	102	1.0	1.0	0.79	50	120	\$10,180	\$9,298	\$19,478
4	1160 tank	2,000	400	102	1.0	1.0	0.79	50	40	\$3,393	\$3,099	\$6,492
5	860 waste rock area	2,000	400	102	1.0	1.0	0.79	50	40	\$3,393	\$3,099	\$6,492
6	Waste rock site C and 860 area	5,000	400	102	1.0	1.0	0.79	50	100	\$8,483	\$7,748	\$16,231
7	Waste rock site E	16,000	400	102	1.0	1.0	0.79	50	320	\$27,146	\$24,794	\$51,940
8	Hawk Inlet and marine load out area	23,000	400	102	1.0	1.0	0.79	50	460	\$39,022	\$35,641	\$74,663
9	Young Bay Dock facility	2,000	400	102	1.0	1.0	0.79	50	40	\$3,393	\$3,099	\$6,492
10	Topsoil stockpiles and borrow areas									\$0	\$0	\$0
11	Tailings (disturbance area minus design footprint)									\$0	\$0	\$0
12	Power Line Right-of-way									\$0	\$0	\$0
13	Waste rock site 23									\$0	\$0	\$0
		108,000							2,160	\$183,233	\$167,357	\$350,590

**Closure Cost Estimate
Yards, Etc.**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Yards, Etc. - Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$183,233	\$167,357	N/A	\$350,590
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$37,497	\$51,605	N/A	\$89,102
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$220,730	\$218,962		\$439,692
Revegetation Cost	\$0	\$4,188	\$407,766	\$411,954
TOTALS	\$220,730	\$223,150	\$407,766	\$851,646

Yards, Etc. - Cover and Growth Media Costs																	
		Cover								Growth Media							
	Description (required)	Cover Volume cy	Topsoil Replacement 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 Topsoiling Cost \$
1	920 mill and portal area						\$0	\$0	\$0	38,720	740/988G	571	2	68	\$22,766	\$31,332	\$54,098
2	Waste rock site D						\$0	\$0	\$0						\$0	\$0	\$0
3	Waste rock site 1350 and portal area						\$0	\$0	\$0						\$0	\$0	\$0
4	1160 tank						\$0	\$0	\$0						\$0	\$0	\$0
5	960 waste rock area						\$0	\$0	\$0						\$0	\$0	\$0
6	Waste rock site C and 860 area						\$0	\$0	\$0						\$0	\$0	\$0
7	Waste rock site E						\$0	\$0	\$0						\$0	\$0	\$0
8	Hawk inlet and marine load out area						\$0	\$0	\$0	23,393	740/988G	571	2	41	\$13,727	\$18,891	\$32,618
9	Young Bay Dock facility						\$0	\$0	\$0	1,613	740/988G	571	2	3	\$1,004	\$1,382	\$2,386
10	Topsoil stockpiles and borrow areas						\$0	\$0	\$0						\$0	\$0	\$0
11	Tailings (disturbance area minus design footprint)						\$0	\$0	\$0						\$0	\$0	\$0
12	Power Line Right-of-way						\$0	\$0	\$0						\$0	\$0	\$0
13	Waste rock site 23						\$0	\$0	\$0						\$0	\$0	\$0
							\$0	\$0	\$0	63,726				112	\$37,497	\$51,605	\$89,102

**Closure Cost Estimate
Yards, Etc.**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Yards, Etc. - Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$183,233	\$167,357	N/A	\$350,590
Cover Placement Cost	\$0	\$0	N/A	\$0
Growth Media Placement Cost	\$37,497	\$51,605	N/A	\$89,102
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$220,730	\$218,962		\$439,692
Revegetation Cost	\$0	\$4,188	\$407,766	\$411,954
TOTALS	\$220,730	\$223,150	\$407,766	\$851,646

Yards, Etc. - Scarifying/Revegetation Costs											
	Description (required)	Surface Area acres	Area Long Dimension ft	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
1	920 mill and portal area	24.00			\$0	\$0	\$0	\$0	\$468	\$45,624	\$46,092
2	Waste rock site D	8.00			\$0	\$0	\$0	\$0	\$156	\$15,208	\$15,364
3	Waste rock site 1350 and portal area	3.50			\$0	\$0	\$0	\$0	\$68	\$6,654	\$6,722
4	1160 tank	1.00			\$0	\$0	\$0	\$0	\$20	\$1,901	\$1,921
5	960 waste rock area	1.00			\$0	\$0	\$0	\$0	\$20	\$1,901	\$1,921
6	Waste rock site C and 860 area	3.00			\$0	\$0	\$0	\$0	\$59	\$5,703	\$5,762
7	Waste rock site E	10.00			\$0	\$0	\$0	\$0	\$195	\$19,010	\$19,205
8	Hawk inlet and marine load out area	14.50			\$0	\$0	\$0	\$0	\$283	\$27,565	\$27,848
9	Young Bay Dock facility	1.00			\$0	\$0	\$0	\$0	\$20	\$1,901	\$1,921
10	Topsoil stockpiles and borrow areas	31.00			\$0	\$0	\$0	\$0	\$605	\$58,931	\$59,536
11	Tailings (disturbance area minus design footprint)	65.50			\$0	\$0	\$0	\$0	\$1,279	\$124,516	\$125,795
12	Power Line Right-of-way	32.00			\$0	\$0	\$0	\$0	\$625	\$60,832	\$61,457
13	Waste rock site 23	20.00			\$0	\$0	\$0	\$0	\$390	\$38,020	\$38,410
		214.50			\$0	\$0	\$0	\$0	\$4,188	\$407,766	\$411,954

**Closure Cost Estimate
Waste Disposal**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Waste Disposal - User Input - Solid Waste									
						Landfill (Bulk) Disposal			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									

- 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)
- Waste disposal provided under "Other User Costs"**

Closure Cost Estimate
Waste Disposal

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Waste Disposal - User Input - Hazardous Materials									
	Description (required)	ID Code	Waste Type (select)	Container Type (select)	Vacuum Truck Size (select)	Liquid Quantity gallons	Soild Quantity cy	One Way Travel Distance to Disposal Site mi	One Way Travel Time to Disposal Site hr
1									

Notes:
1. Use Other Demo & Equip Removal Sheet for tank removal

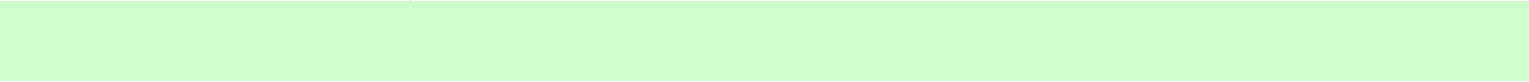
Closure Cost Estimate
Waste Disposal

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Waste Disposal - User Input - Hydrocarbon Contaminated Soils						
	Description (required)	ID Code	Waste Type (select)	Disposal Method (select)	Quantity cy	Travel Distance to Offsite Disposal mi

Notes:
1. Use Yards or Landfills Sheets for bioremediation facility reclamation



**Closure Cost Estimate
Waste Disposal**

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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)

Closure Cost Estimate
Waste Disposal

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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Waste Disposal - Solid Waste Disposal										
	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 \$
1								\$0	\$0	\$0
								\$0	\$0	\$0

Closure Cost Estimate
Waste Disposal

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Waste Disposal - Hazardous Materials Disposal									
	Description (required)	Liquid Waste Volume gallons	Solid Waste Volume cy	Number of Truck Loads	Tons of Waste Tons	Pick-up Fees \$	Transport Fees \$	Disposal Fees \$	Total Hazardous Material Cost \$
1						\$0	\$0	\$0	\$0
						\$0	\$0	\$0	\$0

Closure Cost Estimate
Waste Disposal

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Waste Disposal - Hydrocarbon Contaminated Soils									
	Description (required)	Quantity cy	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

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$6,227	\$7,090	\$234	\$13,551
Monitoring Wells	\$120,710	\$20,358	\$1,795	\$142,863
TOTALS	\$126,937	\$27,448	\$2,029	\$156,414

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

Closure Cost Estimate
Well Abandonment

Well seal thickness: 20 ft
Minimum seal above groundwater table: 50 ft

Closure Cost Estimate
Well Abandonment

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$6,227	\$7,090	\$234	\$13,551
Monitoring Wells	\$120,710	\$20,358	\$1,795	\$142,863
TOTALS	\$126,937	\$27,448	\$2,029	\$156,414

Production, 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	Top of Slotted Casing ⁽²⁾ ft bgs	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	DW-3		1	6.0	73	70	20	38	36	Submersible	70	Grout Only	0.200	36	0.79	0.10		\$1,062	\$2,610	\$743	\$424	\$768	\$347	\$86	\$479	\$87	\$6,606
2	DW-4		1	6.0	125	70	20	78	48	Submersible	70	Grout Only	0.200	75	1.56	0.10		\$1,062	\$2,610	\$817	\$557	\$817	\$369	\$148	\$479	\$87	\$6,946
																		\$2,124	\$5,220	\$1,560	\$981	\$1,585	\$716	\$234	\$958	\$173	\$13,552

- (1) For previously abandoned holes enter "0" 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 construction parameters. Inert media (cuttings or alluvium) used from top of grout to top seal.
(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 10' (3m) 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 Productivity 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:

Closure Cost Estimate
Well Abandonment

Project Name: SRCE Update 2026 - Reclamation Plan
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$6,227	\$7,090	\$234	\$13,551
Monitoring Wells	\$120,710	\$20,358	\$1,795	\$142,863
TOTALS	\$126,937	\$27,448	\$2,029	\$156,414

Monitoring Well Closure																			
	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	Monitoring wells - closure period		128	2.2	50	40	Grout Only	0.030	0.04	0.03		3.1		\$97,077	\$16,372	\$1,290	\$0	\$0	\$114,739
2	Monitoring wells - post-closure period		26	2.2	50	40	Grout Only	0.030	0.04	0.03		3.1		\$19,719	\$3,326	\$262	\$0	\$0	\$23,307
3	Underground boreholes (Three holes approximately 500' d		4	2.2	500	490	Grout Only	0.030	0.67	0.03		4.0		\$3,914	\$660	\$243	\$0	\$0	\$4,817
														\$120,710	\$20,358	\$1,795	\$0	\$0	\$142,863

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 10' (3m) 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.

Notes:

Closure Cost Estimate
Well Abandonment

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$6,227	\$7,090	\$234	\$13,551
Monitoring Wells	\$120,710	\$20,358	\$1,795	\$142,863
TOTALS	\$126,937	\$27,448	\$2,029	\$156,414

Well Construction

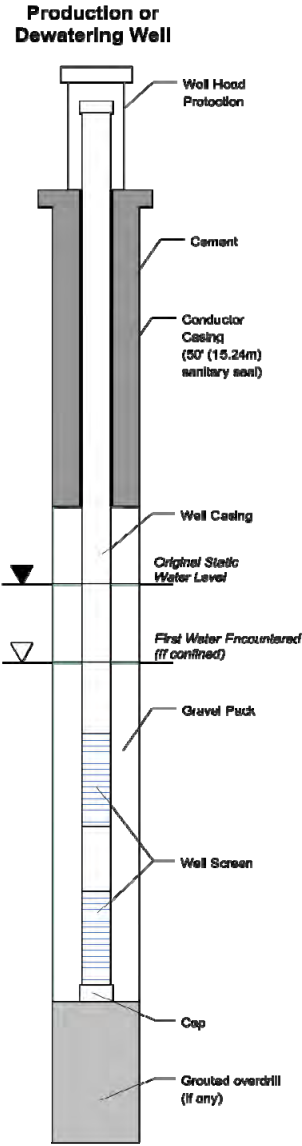


Figure 1 - Production Well

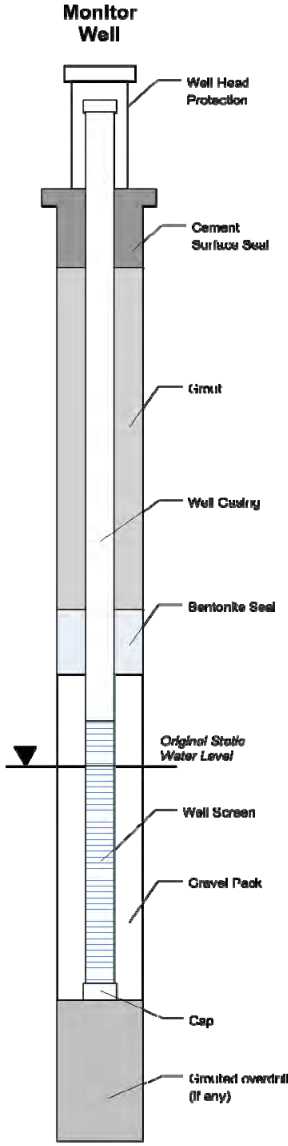


Figure 2 - Monitor Well

**Closure Cost Estimate
Misc. Costs**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO **Cost Basis:** Greens Creek - March 2026

Miscellaneous Cost Summary				
	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert & Buried Pipe Removal	\$0	\$0	N/A	\$0
Surface Pipe Removal	\$0	\$0	N/A	\$0
Power Lines	\$0	N/A	N/A	\$0
Substations/Transformers	\$71,088	N/A	N/A	\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Costs	\$0	\$0	\$0	\$0
TOTALS	\$71,088	\$0	\$0	\$71,088

Fence Removal							
You must fill in ALL green and blue cells							
					Costs		
	Description (required)	ID Code	Length ft	Type (select type)	Labor Cost \$	Equipment Cost \$	Total Cost \$
1							
					\$0	\$0	\$0

Notes:

Fence Installation							
You must fill in ALL green and blue cells							
			Input		Costs		
	Description (required)	ID Code	Length ft	Type (select type)	Labor Cost \$	Equipment Cost \$	Material Cost (\$)
1							
					\$0	\$0	\$0

Notes:

Closure Cost Estimate
Misc. Costs

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Miscellaneous Cost Summary				
	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert & Buried Pipe Removal	\$0	\$0	N/A	\$0
Surface Pipe Removal	\$0	\$0	N/A	\$0
Power Lines	\$0	N/A	N/A	\$0
Substations/Transformers	\$71,088	N/A	N/A	\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Costs	\$0	\$0	\$0	\$0
TOTALS	\$71,088	\$0	\$0	\$71,088

Culvert & Buried Pipe Removal							
You must fill in ALL green and blue cells							
			Input			Costs	
	Description (required)	ID Code	Length ft	Type (select type)	Location (select)	Labor Cost \$	Equipment Cost \$
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
						\$0	\$0

Notes:

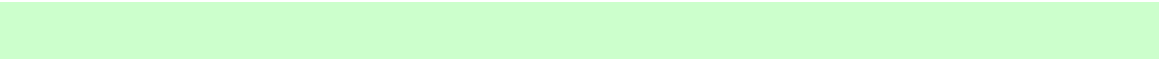
Surface Pipe Removal							
You must fill in ALL green and blue cells							
			Input			Costs	
	Description (required)	ID Code	Length ft	Type (select type)	Location (select)	Labor Cost \$	Equipment Cost \$
1							
2							
						\$0	\$0

Notes:

Closure Cost Estimate
Misc. Costs

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Miscellaneous Cost Summary				
	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert & Buried Pipe Removal	\$0	\$0	N/A	\$0
Surface Pipe Removal	\$0	\$0	N/A	\$0
Power Lines	\$0	N/A	N/A	\$0
Substations/Transformers	\$71,088	N/A	N/A	\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Costs	\$0	\$0	\$0	\$0
TOTALS	\$71,088	\$0	\$0	\$71,088



Closure Cost Estimate
Misc. Costs

Project Name: SRCE Update 2026 - Reclamation Plan
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File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Miscellaneous Cost Summary				
	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert & Buried Pipe Removal	\$0	\$0	N/A	\$0
Surface Pipe Removal	\$0	\$0	N/A	\$0
Power Lines	\$0	N/A	N/A	\$0
Substations/Transformers	\$71,088	N/A	N/A	\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Costs	\$0	\$0	\$0	\$0
TOTALS	\$71,088	\$0	\$0	\$71,088

Power Line and Substation Removal							
You must fill in ALL green and blue cells							
			Input				
	Description (required)	ID Code	Power Line Length miles	Power Line Type (select)	Number of Substations #	Location (select)	Power Line Removal \$
1	Removal of one substation Year 10			Double Pole	1	On-site	\$0
							\$0

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
920_asbuilt_ft.dwg\utilities-power and 1350-power
1 substation stays to service the water treatment

Closure Cost Estimate
Misc. Costs

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Miscellaneous Cost Summary				
	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert & Buried Pipe Removal	\$0	\$0	N/A	\$0
Surface Pipe Removal	\$0	\$0	N/A	\$0
Power Lines	\$0	N/A	N/A	\$0
Substations/Transformers	\$71,088	N/A	N/A	\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Costs	\$0	\$0	\$0	\$0
TOTALS	\$71,088	\$0	\$0	\$71,088

Rip-Rap & Rock Lining							
You must fill in ALL green and blue cells							
			Input		Costs		
	Description (required)	ID Code	Area S.Y.	Type (select type)	Labor Cost \$	Equipment Cost \$	Material Cost \$
1							
					\$0	\$0	\$0

Notes:

Closure Cost Estimate
Misc. Costs

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO **Cost Basis:** Greens Creek - March 2026

Miscellaneous Cost Summary				
	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert & Buried Pipe Removal	\$0	\$0	N/A	\$0
Surface Pipe Removal	\$0	\$0	N/A	\$0
Power Lines	\$0	N/A	N/A	\$0
Substations/Transformers	\$71,088	N/A	N/A	\$71,088
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Costs	\$0	\$0	\$0	\$0
TOTALS	\$71,088	\$0	\$0	\$71,088

Closure Cost Estimate
Monitoring

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Reclamation Monitoring & Maintenance - Cost Summary				
	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$0	\$808	\$78,642	\$79,450
Erosion Maintenance	\$7,556	\$22,667	N/A	\$30,223
Reclamation Monitoring	\$0	\$0	N/A	\$0
Subtotal Reclamation Monitoring	\$7,556	\$23,475	\$78,642	\$109,673
Water Quality Monitoring	\$0	\$0	\$0	\$0
TOTAL MONITORING	\$7,556	\$23,475	\$78,642	\$109,673

Clear Sheet

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	414	10%	Mix 1	41.4	\$1,901.00	\$0.00	\$19.52	
Labor Equipment Materials Cost/Acre								\$0
								\$808
								\$78,642
								\$1,921
	Subtotal							\$79,450
Notes: 1) Surface area is NOT the same as footprint disturbance area typically used for permitting purposes. 2) If BRCE model, revegetation surface area determined by area included in PER, LOM or Surety estimate								
	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	187,722	10%	\$1.61	18,772		\$7,556.00	\$22,667.00	\$30,223
Notes:								

Reclamation Monitoring					
Description	Hrs/Day	Days/Year	Number of Years	Rate \$/hr	
Field Work					
Field Geologist/Engineer				\$127.85	\$0
Range Scientist				\$110.27	\$0
Reporting					
Field Geologist/Engineer				\$127.85	\$0
Range Scientist				\$110.27	\$0
					Subtotal
					\$0
Travel					
	Hrs/Trip tr	Trips/Year	Years	Truck Cost \$/hr	
Travel				\$13.46	\$0
					Subtotal
					\$0
					Total Reclamation Monitoring
					\$0
Notes:					

Closure Cost Estimate Monitoring

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCRC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCRC SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Reclamation Monitoring & Maintenance - Cost Summary				
	Labor	Equipment	LBP & Materials	Totals
Revegetation Maintenance	\$0	\$808	\$78,642	\$79,450
Erosion Maintenance	\$7,556	\$22,667	N/A	\$30,223
Reclamation Monitoring	\$0	\$0	N/A	\$0
Subtotal Reclamation Monitoring	\$7,556	\$23,475	\$78,642	\$109,673
Water Quality Monitoring	\$0	\$0	\$0	\$0
TOTAL MONITORING	\$7,556	\$23,475	\$78,642	\$109,673

Clear Sheet

[illegible]

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

Ground & Surface Water Monitoring

Pump Costs	

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

Notes: Replacement period = frequency of pump replacement

Reporting

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

Notes:

Closure Cost Estimate Constr. Mgmt

Project Name: SRCE Update 2026 - Reclamation Plan
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 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Construction Management & Road Maintenance - Cost Summary				
	Labor	Equipment	Materials	Totals
Construction Management	\$0	\$0	N/A	\$0
Construction Support		\$0		\$0
Road Maintenance	\$234,184	\$148,611	\$0	\$382,795
TOTAL CONSTRUCTION MANAGEMENT	\$234,184	\$148,611	\$0	\$382,795

Clear Sheet

Construction Management							
Construction Management Staff							
Description	Duration mo.	Hours/ Month hr.	Number of Supervisors	Supervisor Rate \$/hr	Labor Cost \$	Equipment Cost ⁽¹⁾ \$	Totals \$
Active Reclamation					\$0	\$0	\$0
Monitoring & Maintenance					\$0	\$0	\$0
Total Staff					\$0	\$0	\$0
Construction Management Support							
Description	Duration mo.	Number of Units		Rental Rate \$/mo	Generator Cost \$/mo	Equipment Cost ⁽¹⁾ \$	Totals \$
Temporary Office Rental						\$0	\$0
Temporary Toilets						\$0	\$0
Total Support						\$0	\$0
Notes: Office rental assumes only 1 generator required for every 4 trailers							
Total Construction Management							\$0

Road Maintenance							
Description	Fleet Size (select)	Number	Duration mo.	Hours/ Month hr.	Labor Cost \$	Equipment Cost \$	Totals \$
Active Reclamation							
Water Truck	Small	1	17	72	\$92,688	\$83,576	\$176,264
Grader	Small	1	17	72	\$100,778	\$46,320	\$147,098
Monitoring & Maintenance							
Water Truck	Small				\$0	\$0	\$0
Grader	Small	1	3	160	\$40,718	\$18,715	\$59,433
Description	Gallons/ Day	Days/ Month	Duration mo.	Cost/ Gallon \$			Totals \$
Water Fees							
Water Fees							\$0
Total Project Maintenance					\$234,184	\$148,611	\$382,795
Notes: 1) Supervisor equipment = pickup truck Duration: 3 years * 5.5 months/year. 2) Road Maintenance Hawk Inlet to WTP Duration: 12 hours * 40 days (Frequency: grade the road once every 2.5 years)							

Closure Cost Estimate
Labor Rates

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

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	Greens Creek - March 2026	Equipment and labor rates updated based on HGCMC provided costs, Pamphlet 600 - Issue 51, Davis-Bacon Act WD # AK20260001, provided quotes, and RS Means Online when direct q
Power Equipment Operators	none	\$0.00
Truck Drivers	none	\$0.00
Laborers	none	\$0.00

INDIRECT COSTS

Unemployment (%)		
Retirement/SS/Medicare (%)		
Workman's Compensation (%)		
Other Indirects		
State Payroll Tax (13),(15),(17),(18)		
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)	Additional User Markups to Base Rate†			Total (\$/hr)
										(\$/hr)	%	(\$/hr)	
Equipment Operators (\$/hr) (2)													
Bulldozers													
D6R	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
D6R w/ Winch	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
D7R	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
D8R	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
D9R	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
D10R	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
D11R	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Wheeled Dozers													
824G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
834G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
844	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
854G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Motor Graders													
120H	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
14G/H	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
16G/H	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
24M	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Track Excavators													
312C	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
320C	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
325C	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
330C	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
345B	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
365BL	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
385BL	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Scrapers													
631G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
637G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Wheeled Loaders													
924G	NGI0302-002 Group	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$82.73
928G	NGI0302-002 Group	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$82.73
950G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
966G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
972G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
980G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
988G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
990	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
992G	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
994D	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
L2350	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Shovels													
PC2000	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
PC3000	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
PC4000	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
PC5500	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
PC8000	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0	\$84.83
Hydraulic Hammers													
H-120 (fits 325)													
H-160 (fits 345)													
H-180 (fits 365/385)													
Demolition Shears													
S340 (fits 322/325/330)													
S365 (fits 330/345)													
S390 (fits 365/385)													
Demolition Grapples													
G315 (fits 322/325)													
G320 (fits 325/330)													
G330 (fits 345/365)													

Closure Cost Estimate
Labor Rates

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

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	Greens Creek - March 2026	Equipment and labor rates updated based on HGCMC provided costs, Pamphlet 600 - Issue 51, Davis-Bacon Act WD # AK20260001, provided quotes, and RS Means Online when direct quotes are not available.											
Power Equipment Operators	none	\$0.00											
Truck Drivers	none	\$0.00											
Laborers	none	\$0.00											

INDIRECT COSTS

Unemployment (%)		
Retirement/SS/Medicare (%)		
Workman's Compensation (%)		
Other Indirects		
State Payroll Tax (13),(15),(17),(18)		
Total Other Indirects	0.00%	

HOURLY LABOR RATE TABLE

Other Equipment													
420D 4WD Backhoe	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$84.83
428D 4WD Backhoe	NGI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$84.83
CS533E Vibratory Roller	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
CS633E Vibratory Roller	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
CP533E Sheepsfoot Compactor	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
CP633E Sheepsfoot Compactor	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Light Truck - 1.5 Ton	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Supervisor's Truck	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Flatbed Truck	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Air Compressor + tools	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Welding Equipment	GI0302-002 Group	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$84.83
Heavy Duty Drill Rig	N2204	\$85.79	\$0.00	\$85.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$85.79
Pump (plugging) Drill Rig	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Concrete Pump					\$0.00							\$0	
Gas Engine Vibrator	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
Generator 5KW					\$0.00							\$0	
HDEP Welder (pipe or liner)					\$0.00							\$0	
5 Ton Crane	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
20 Ton Crane	A1601	\$82.73	\$0.00	\$82.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.73
50 Ton Crane	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$84.83
120 Ton Crane	A1602	\$84.83	\$0.00	\$84.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$84.83

NOTES:

(1) Equipment Type:	Caterpillar model or equivalent, LeTourneau
(2) Equipment Operator Source:	Pamphlet 600 - Issue 51
(3) Zone Basis:	Davis-Bacon Act WD # AK20260001, Building, Heavy

Truck Drivers (\$/hr) (4)

725	A2101	\$81.10	\$0.00	\$81.10		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$81.10
730	A2101	\$81.10	\$0.00	\$81.10		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$81.10
735	A2101	\$81.10	\$0.00	\$81.10		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$81.10
740	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
769D	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
773E	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
777D	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
785C	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
793C	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
797B	A2102	\$82.57	\$0.00	\$82.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$82.57
613E (5,000 gal) Water Wagon	A2105	\$78.02	\$0.00	\$78.02		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$78.02
621E (8,000 gal) Water Wagon	A2105	\$78.02	\$0.00	\$78.02		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$78.02
777D Water Truck	A2105	\$78.02	\$0.00	\$78.02		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$78.02
785C Water Truck	A2105	\$78.02	\$0.00	\$78.02		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$78.02
Dump Truck (10-12 yd3)	A2105	\$78.02	\$0.00	\$78.02		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$78.02

NOTES:

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

Closure Cost Estimate

Labor Rates

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

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	Greens Creek - March 2026	Equipment and labor rates updated based on HGCMC provided costs, Pamphlet 600 - Issue 51, Davis-Bacon Act WD # AK20260001, provided quotes, and RS Means Online when direct quotes are not available.	
Power Equipment Operators	none	\$0.00	
Truck Drivers	none	\$0.00	
Laborers	none	\$0.00	

INDIRECT COSTS

Unemployment (%)		
Retirement/SS/Medicare (%)		
Workman's Compensation (%)		
Other Indirects		
State Payroll Tax (13),(15),(17),(1)		
Total Other Indirects	0.00%	

HOURLY LABOR RATE TABLE

Laborers (\$/hr) (6,7)

General Laborer	N1201	\$74.86	\$0.00	\$74.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$74.86
Skilled Laborer	N1203	\$76.76	\$0.00	\$76.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$76.76
Driller's Helper	A1604	\$80.96	\$0.00	\$80.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$80.96
Rodmen (reinforcing concrete)	ABO0942-001, Group	\$75.51	\$0.00	\$75.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$75.51
Cement finisher	ABO0942-001, Group	\$75.51	\$0.00	\$75.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$75.51
Carpenter	CARP1281-002	\$82.31	\$0.00	\$82.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$82.31

NOTES:

(6) Laborer Source:	Pamphlet 600 - Issue 49
(7) Carpenter Source:	Davis-Bacon Act WD # AK20260001, Building, Heavy
(8) Zone Basis:	

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

[illegible]

NOTES:

(9) Project Manager:	
(9) Foreman Source:	
(9) Technical Labor Source:	
Other Labor Source:	
Other Labor Source:	

†Additional User Markups	
(These are added by the user to the base rate to account for site-specific conditions or corporate requirements)	

Closure Cost Estimate
Equipment Costs
Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Monthly Rental Basis: 486 hrs month

EQUIPMENT RENTAL RATE TABLE				
EQUIPMENT TYPE (1)	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
Bulldozers				
D6R	\$17,500.00	\$36.01	\$41.48	\$77.48
D6R w/ Winch	\$18,500.00	\$38.07	\$41.48	\$79.54
D7R	\$9,900.00	\$20.37	\$46.20	\$66.57
D8R	\$32,500.00	\$66.87	\$62.01	\$128.88
D9R	\$32,900.00	\$67.70	\$88.29	\$155.98
D10R			\$113.33	\$113.33
D11R			\$170.64	\$170.64
Wheeled Dozers				
824G			\$40.64	\$40.64
834G			\$47.63	\$47.63
844			\$56.70	\$56.70
854G			\$71.82	\$71.82
Motor Graders				
120H	\$11,600.00	\$23.87	\$15.12	\$38.99
14G/H	\$10,780.00	\$22.18	\$65.81	\$87.99
16G/H	\$11,695.00	\$24.06	\$83.61	\$107.68
24M			\$58.59	\$58.59
Track Excavators				
312C	\$7,245.00	\$14.91	\$7.11	\$22.01
320C	\$8,400.00	\$17.28	\$31.44	\$48.73
325C	\$10,500.00	\$21.60	\$39.60	\$61.20
330C	\$13,500.00	\$27.78	\$31.00	\$58.77
345B	\$21,150.00	\$43.52	\$49.14	\$92.66
365BL	\$31,500.00	\$64.81	\$58.94	\$123.75
385BL	\$40,860.00	\$84.07	\$93.76	\$177.83
Scrapers				
631G			\$100.13	\$100.13
637G			\$156.42	\$156.42
Wheeled Loaders				
924G	\$6,570.00	\$13.52	\$15.34	\$28.86
928G	\$8,100.00	\$16.67	\$31.35	\$48.02
950G	\$13,005.00	\$26.76	\$23.19	\$49.95
966G	\$16,900.00	\$34.77	\$55.94	\$90.71
972G	\$18,200.00	\$37.45	\$62.77	\$100.21
980G	\$19,500.00	\$40.12	\$43.08	\$83.21
988G	\$28,500.00	\$58.64	\$99.42	\$158.06
990	\$78,388.64	\$161.29	\$64.26	\$225.55
992G	\$145,578.90	\$299.55	\$185.53	\$485.08
994D			\$136.08	\$136.08
L2350			\$249.48	\$249.48
Shovels				
PC2000			\$139.86	\$139.86
PC3000			\$189.00	\$189.00
PC4000			\$264.60	\$264.60
PC5500			\$449.82	\$449.82
PC8000			\$563.22	\$563.22
Hydraulic Hammers				
H-120 (fits 325)	\$10,000.00	\$20.58	\$6.85	\$27.43
H-160 (fits 345)	\$13,000.00	\$26.75	\$7.72	\$34.47
H-180 (fits 365/385)	\$22,000.00	\$45.27	\$10.87	\$56.14
Demolition Shears				
S340 (fits 322/325/330)				\$0.00
S365 (fits 330/345)				\$0.00
S390 (fits 365/385)				\$0.00
Demolition Grapples				
G315 (fits 322/325)				\$0.00
G320 (fits 325/330)				\$0.00
G330 (fits 345/365)				\$0.00
Other Equipment				
420D 4WD Backhoe	\$3,200.00	\$6.58	\$22.31	\$28.89
428D 4WD Backhoe	\$4,474.00	\$9.21	\$22.12	\$31.33
CS533E Vibratory Roller	\$6,600.00	\$13.58	\$14.18	\$27.76
CS633E Vibratory Roller	\$7,400.00	\$15.23	\$17.96	\$33.18
CP533E Sheepsfoot Compactor	\$7,200.00	\$14.81	\$14.18	\$28.99
CP633E Sheepsfoot Compactor	\$167,975.07	\$345.63	\$17.96	\$363.58
Light Truck - 1.5 Ton	\$3,785.00	\$7.79	\$5.67	\$13.46
Supervisor's Truck	\$1,650.00	\$3.40	\$3.78	\$7.18
Flatbed Truck	\$2,058.00	\$4.23	\$17.77	\$22.00
Air Compressor + tools	\$1,561.00	\$3.21	\$3.78	\$6.99
Welding Equipment	\$455.00	\$0.94	\$7.56	\$8.50
Heavy Duty Drill Rig	\$32,300.00	\$66.46	\$45.36	\$111.82
Pump (plugging) Drill Rig	\$1,679.76	\$3.46	\$37.80	\$41.26
Concrete Pump	\$5,700.00	\$11.73	\$37.80	\$49.53
Gas Engine Vibrator	\$810.00	\$1.67	\$3.78	\$5.45
Generator 5KW	\$525.00	\$1.08	\$5.67	\$6.75
HDEP Welder (pipe or liner)	\$939.00	\$1.93	\$7.56	\$9.49
5 Ton Crane	\$8,510.00	\$17.51	\$11.34	\$28.85
20 Ton Crane	\$23,175.00	\$47.69	\$15.12	\$62.81
50 Ton Crane	\$23,175.00	\$47.69	\$17.77	\$65.45
120 Ton Crane	\$55,991.29	\$115.21	\$19.66	\$134.86
Trucks				
725	\$19,950.00	\$41.05	\$29.78	\$70.83
730	\$17,500.00	\$36.01	\$31.67	\$67.67
735	\$21,900.00	\$45.06	\$39.79	\$84.85
740	\$22,900.00	\$47.12	\$39.79	\$86.91
769D			\$34.97	\$34.97
773E			\$44.42	\$44.42
777D			\$63.32	\$63.32
785C			\$91.67	\$91.67
793C			\$157.82	\$157.82
797B			\$222.08	\$222.08
613E (5,000 gal) Water Wagon	\$17,500.00	\$36.01	\$34.35	\$70.35
621E (8,000 gal) Water Wagon			\$40.64	\$40.64
777D Water Truck			\$63.32	\$63.32
785C Water Truck			\$91.67	\$91.67
Dump Truck (10-12 yd ³)	\$9,000.00	\$18.52	\$20.97	\$39.49
NOTES:				
(1) Power Equipment Source:				
(2) Power Equipment Type:	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels			
(3) Drilling Equipment Source:				
(4) Other Equipment Source:				
(5) Drill rig includes support (pipe) truck				

Closure Cost Estimate
Equipment Costs
Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.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@ 3.78/gal	Total Hourly Equipment Cost
Bulldozers						
D6R	\$10.74		\$7.11	6.25	\$23.63	\$41.48
D6R w/ Winch	\$10.74		\$7.11	6.25	\$23.63	\$41.48
D7R	\$10.74		\$7.11	7.50	\$28.35	\$46.20
D8R	\$11.33		\$13.82	9.75	\$36.86	\$62.01
D9R	\$12.92		\$21.50	14.25	\$53.87	\$88.29
D10R	\$15.20		\$30.09	18.00	\$68.04	\$113.33
D11R	\$22.57		\$47.90	26.50	\$100.17	\$170.64
Wheeled Dozers						
824G		\$0.00		10.75	\$40.64	\$40.64
834G		\$0.00		12.60	\$47.63	\$47.63
844		\$0.00		15.00	\$56.70	\$56.70
854G		\$0.00		19.00	\$71.82	\$71.82
Motor Graders						
120H				4.00	\$15.12	\$15.12
14G/H	\$8.13	\$12.66	\$21.39	6.25	\$23.63	\$65.81
16G/H	\$8.50	\$17.55	\$29.21	7.50	\$28.35	\$83.61
24M				15.50	\$58.59	\$58.59
Track Excavators						
312C				1.88	\$7.11	\$7.11
320C	\$6.54		\$6.38	4.90	\$18.52	\$31.44
325C	\$6.59		\$8.06	6.60	\$24.95	\$39.60
330C				8.20	\$31.00	\$31.00
345B			\$9.07	10.60	\$40.07	\$49.14
365BL	\$9.04			13.20	\$49.90	\$58.94
385BL	\$9.04		\$18.57	17.50	\$66.15	\$93.76
Scrapers						
631G	\$10.89	\$20.90	\$11.64	15.00	\$56.70	\$100.13
637G	\$25.38	\$20.90	\$20.36	23.75	\$89.78	\$156.42
Wheeled Loaders						
924G		\$4.94		2.75	\$10.40	\$15.34
928G	\$5.42	\$4.94	\$7.76	3.50	\$13.23	\$31.35
950G		\$8.07		4.00	\$15.12	\$23.19
966G	\$7.56	\$11.83	\$14.81	5.75	\$21.74	\$55.94
972G	\$8.54	\$11.83	\$18.77	6.25	\$23.63	\$62.77
980G		\$14.73		7.50	\$28.35	\$43.08
988G	\$16.00	\$17.57	\$20.11	12.10	\$45.74	\$99.42
990				17.00	\$64.26	\$64.26
992G	\$17.72	\$34.70	\$46.17	23.00	\$86.94	\$185.53
994D				36.00	\$136.08	\$136.08
L2350				66.00	\$249.48	\$249.48
Shovels						
PC2000				37.00	\$139.86	\$139.86
PC3000				50.00	\$189.00	\$189.00
PC4000				70.00	\$264.60	\$264.60
PC5500				119.00	\$449.82	\$449.82
PC8000				149.00	\$563.22	\$563.22
Hydraulic Hammers						
H-120 (fits 325)	N/A		\$6.85			\$6.85
H-160 (fits 345)	N/A		\$7.72			\$7.72
H-180 (fits 365/385)	N/A		\$10.87			\$10.87
Demolition Shears						
S340 (fits 322/325/330)	N/A					\$0.00
S365 (fits 330/345)	N/A					\$0.00
S390 (fits 365/385)	N/A					\$0.00
Demolition Grapples						
G315 (fits 322/325)	N/A					\$0.00
G320 (fits 325/330)	N/A					\$0.00
G330 (fits 345/365)	N/A					\$0.00
Other Equipment						
420D 4WD Backhoe	\$6.04		\$4.93	3.00	\$11.34	\$22.31
428D 4WD Backhoe	\$5.71		\$5.07	3.00	\$11.34	\$22.12
CS533E Vibratory Roller				3.75	\$14.18	\$14.18
CS633E Vibratory Roller				4.75	\$17.96	\$17.96
CP533E Sheepsfoot Compactor				3.75	\$14.18	\$14.18
CP633E Sheepsfoot Compactor				4.75	\$17.96	\$17.96
Light Truck - 1.5 Ton				1.50	\$5.67	\$5.67
Supervisor's Truck				1.00	\$3.78	\$3.78
Flatbed Truck				4.70	\$17.77	\$17.77
Air Compressor + tools			N/A	1.00	\$3.78	\$3.78
Welding Equipment			N/A	2.00	\$7.56	\$7.56
Heavy Duty Drill Rig				12.00	\$45.36	\$45.36
Pump (plugging) Drill Rig				10.00	\$37.80	\$37.80
Concrete Pump			N/A	10.00	\$37.80	\$37.80
Gas Engine Vibrator			N/A	1.00	\$3.78	\$3.78
Generator 5KW			N/A	1.50	\$5.67	\$5.67
HDEP Welder (pipe or liner)			N/A	2.00	\$7.56	\$7.56
5 Ton Crane				3.00	\$11.34	\$11.34
20 Ton Crane				4.00	\$15.12	\$15.12
50 Ton Crane				4.70	\$17.77	\$17.77
120 Ton Crane				5.20	\$19.66	\$19.66
Trucks						
725	\$12.01			4.70	\$17.77	\$29.78
730	\$12.01			5.20	\$19.66	\$31.67
735	\$12.01			7.35	\$27.78	\$39.79
740	\$12.01			7.35	\$27.78	\$39.79
769D				9.25	\$34.97	\$34.97
773E				11.75	\$44.42	\$44.42
777D				16.75	\$63.32	\$63.32
785C				24.25	\$91.67	\$91.67
793C				41.75	\$157.82	\$157.82
797B				58.75	\$222.08	\$222.08
613E (5,000 gal) Water Wagon	\$7.20	\$4.47		6.00	\$22.68	\$34.35
621E (8,000 gal) Water Wagon				10.75	\$40.64	\$40.64
777D Water Truck				16.75	\$63.32	\$63.32
785C Water Truck				24.25	\$91.67	\$91.67
Dump Truck (10-12 yd3) (5)	N/A	\$1.32	N/A	5.20	\$19.66	\$20.97
Notes:						
(1) PM Source:						
(2) Undercarriage Source:						
(3) G.E.T. Source:						
(4) Fuel Use Source:		Caterpillar Handbook, Edition 35, Ch. 20; or estimated average for smaller vehicles				
(5) Dump Truck Oper. Cost Source:		Means Heavy Construction (2008)				

Closure Cost Estimate
Equipment Costs
Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

TIRE COST TABLES						
Equipment	Tire Size	# of Tires Per Piece of Equipment	Cost Per Tire	Tire Cost ⁽¹⁾⁽²⁾	Life Expectency Hours (Low/Zone A) ⁽³⁾	Tire Cost per Hour
Bulldozers						
D6R			N/A			
D6R w/ Winch			N/A			
D7R			N/A			
D8R			N/A			
D9R			N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers						
824G	29.5R25	4		\$0.00	3,500	\$0.00
834G	35/65-R33	4		\$0.00	3,500	\$0.00
844	45/65-R39	4		\$0.00	3,500	\$0.00
854G	45/65-R45	4		\$0.00	3,500	\$0.00
Motor Graders						
120H	13PR24	6		\$0.00	3,500	
14G/H	20.5R25	6	\$7,385.00	\$44,310.00	3,500	\$12.66
16G/H	23.5R25	6	\$10,240.00	\$61,440.00	3,500	\$17.55
24M	23.5R25	6		\$0.00	3,500	
Track Excavators						
312C			N/A			
320C			N/A			
325C			N/A			
330C			N/A			
345B			N/A			
365BL			N/A			
385BL			N/A			
Scrapers						
631G	37.25R35	4	\$20,900.00	\$83,600.00	4,000	\$20.90
637G	37.25R35	4	\$20,900.00	\$83,600.00	4,000	\$20.90
Wheeled Loaders						
924G	17.5R25	4	\$5,560.00	\$22,240.00	4,500	\$4.94
928G	17.5R25	4	\$5,560.00	\$22,240.00	4,500	\$4.94
950G	26.5R25	4	\$9,080.00	\$36,320.00	4,500	\$8.07
966G	26.5R25	4	\$13,310.00	\$53,240.00	4,500	\$11.83
972G	26.5R25	4	\$13,310.00	\$53,240.00	4,500	\$11.83
980G	29.5R25	4	\$16,575.00	\$66,300.00	4,500	\$14.73
988G	35/65-33	4	\$19,770.00	\$79,080.00	4,500	\$17.57
990	41.25/70-39	4		\$0.00	4,500	
992G	45/65R45	4	\$39,040.00	\$156,160.00	4,500	\$34.70
994D	55/85R57	4		\$0.00	4,500	
L2350	55/85R57	4		\$0.00	4,500	
Shovels						
PC2000			N/A			
PC3000			N/A			
PC4000			N/A			
PC5500			N/A			
PC8000			N/A			
Hydraulic Hammers						
H-120 (fits 325)			N/A			
H-160 (fits 345)			N/A			
H-180 (fits 365/385)			N/A			
Demolition Shears						
S340 (fits 322/325/330)			N/A			
S365 (fits 330/345)			N/A			
S390 (fits 365/385)			N/A			
Demolition Grapples						
G315 (fits 322/325)			N/A			
G320 (fits 325/330)			N/A			
G330 (fits 345/365)			N/A			
Other Equipment						
420D 4WD Backhoe	340/80R18-19.5LR24	2		\$0.00	3,000	
428D 4WD Backhoe	340/80R18-16.9R28	2		\$0.00	3,000	
CS533E Vibratory Roller			N/A			
CS633E Vibratory Roller			N/A			
CP533E Sheepsfoot Compactor			N/A			
CP633E Sheepsfoot Compactor			N/A			
Light Truck - 1.5 Ton		4		\$0.00	3,000	
Supervisor's Truck		4		\$0.00	3,000	
Flatbed Truck		22		\$0.00	3,000	
Air Compressor + tools			N/A			
Welding Equipment			N/A			
Heavy Duty Drill Rig		4		\$0.00	3,000	
Pump (plugging) Drill Rig		4		\$0.00	3,000	
Concrete Pump			N/A			
Gas Engine Vibrator			N/A			
Generator 5KW			N/A			
HDEP Welder (pipe or liner)			N/A			
5 Ton Crane		4		\$0.00	3,000	
20 Ton Crane		4		\$0.00	3,000	
50 Ton Crane		6		\$0.00	3,000	
120 Ton Crane		6		\$0.00	3,000	
Trucks						
725	23.5R25	6		\$0.00	2,000	
730	23.5R25	6		\$0.00	2,000	
735	26.5R25	6		\$0.00	2,000	
740	29.5R25	6		\$0.00	2,000	
769D	18.00R33	6		\$0.00	6,000	
773E	24.00R35	6		\$0.00	5,000	
777D	27.00R49	6		\$0.00	5,000	
785C	33.00R51	6		\$0.00	4,000	
793C	40.00R57	6		\$0.00	4,000	
797B	40.00R57	6		\$0.00	4,000	
613E (5,000 gal) Water Wagon	23.5R25	6	\$4,465.00	\$26,790.00	6,000	\$4.47
621E (8,000 gal) Water Wagon	33.25R29	6		\$0.00	8,000	
777D Water Truck	27.00R49	6		\$0.00	5,000	
785C Water Truck	33.00R51	6		\$0.00	4,000	
Dump Truck (10-12 yd3)		10	\$790.00	\$7,900.00	6,000	\$1.32
Notes:						
(1) Unit Cost Basis:		Cost per set				
(2) Cost Basis:						
(3) Tire Cost Source:						
(4) Tire Wear Source:						

Closure Cost Estimate Material Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Revegetation Materials			
Seed Mixes			
Seed Mix	Description	Cost/Acre	
None			
Mix 1	Basins	\$1,901.00	
Mix 2	Low Hills		
Mix 3	Uplands		
Mix 4	Riparian or Custom		
User Mix 1			
User Mix 2			
User Mix 3			
User Mix 4			
	Cost/lb	lbs/Acre	Cost/Acre
User Mix 5 (from Seed Mix sheet)	#DIV/0!	\$0.00	\$0.00
Notes:			
Mulch			
Item	Cost/lb	lbs/Acre	Cost/Acre
None			
Straw Mulch		10	
Hydro Mulch		10	
Timber Mulch		10	
		10	
Notes:			

Closure Cost Estimate Material Costs

Project Name: SRCE Update 2026 - Reclamation Plan

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Cost Estimate Type: ARO **Cost Basis:** Greens Creek - March 2026

Amendments			
Item	Cost/lb	lbs/Acre	Cost/Acre
None			
Organic Matter		10	
Treated Sludge		10	
Chemical		10	
		10	
Notes:			

Closure Cost Estimate

Material Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

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Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO **Cost Basis: Greens Creek - March 2026**

Well Abandonment Materials			
Description	Cost/50lb bag	Units	Cost/unit*
Cement	\$48.03	cy	\$228.71
Grout (Low Grade Bentonite)	\$16.88	cy	\$80.38
Inert Material/Cuttings		cy	
		cy	
		cy	

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

[illegible]

Closure Cost Estimate

Material Costs

Project Name: SRCE Update 2026 - Reclamation Plan

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Cost Data: User Data

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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Fuel, Etc.			
Description	Units	Cost/unit	User Overrides
Off-road Diesel - delivered (1)	\$/gal	\$3.780	
Pickup Truck Mileage	\$/mi		
Electical Power	\$/kWh	\$0.150	
Diesel power	\$/kWh	\$0.300	
Water treatment reagents	\$/gal		
3.78			
PeroMarine costs from 2021-2025 average plus shipping and fees.			

Closure Cost Estimate

Material Costs

Revegetation Method				
Slopes				
Disturbance Type	Seed Application Method	Labor Cost/Acre	Equipment Cost/Acre	Total Cost/Acre
Waste Rock Dumps	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Heap Leach	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Tailings	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Quarries & Borrow Pits	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Flat Areas and Undifferentiated				
Disturbance Type	Seed Application Method	Labor Cost/Acre	Equipment Cost/Acre	Total Cost/Acre
Exploration Trenches	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Exploration Roads	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Waste Rock Dumps	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Heap Leach	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Tailings	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Quarries & Borrow Pits	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Roads	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Pits	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Haul Material	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Foundations & Buildings	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Sediment & Drainage Control	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Process Ponds	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Landfills	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Yards, Etc.	Mechanical Broadcast	\$0.00	\$19.52	\$19.52
Revegetation Maintenance	Mechanical Broadcast	\$0.00	\$19.52	\$19.52

Closure Cost Estimate Misc. Unit Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Revegetation										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Materials	Labor	Equipment	Total	Notes
Seeding - Broadcast Hand (1)		acres					\$0.00	\$0.00	\$0.00	
Seeding - Broadcast Mechanical (1)		acres					\$0.00	\$19.52	\$19.52	
Seeding - Drill (1)		acres		365			\$0.00	\$19.52	\$19.52	
Seeding - Hydroseeding (1)				365			\$0.00	\$19.52	\$19.52	
Shrub Planting - bare root 6-10 in (150- 250mm) (2)	02910-400-0561	ea.	1 Clab	365			\$1.64	\$0.00	\$1.64	
Tree Planting - bare root 11-16 in (270- 400mm) (3)	02910-400-0562	ea.	1 Clab	260			\$2.30	\$0.00	\$2.30	
Cactus Planting (4)		ea.	1 Clab						\$0.00	
NOTES:										
(1) Seeding Source:										
(2) Shrub Source:										
(3) Tree Source:										
(4) Cactus Source:										
Building and Wall Demolition										
Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data . All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Labor	Equipment	Premium	Total	Notes
Building Demolition										
Lg. steel	02220-110-0012	C.F.	B-8	21500		\$0.20	\$0.07		\$0.27	
Lg. concrete	02220-110-0050	C.F.	B-8	15300		\$0.28	\$0.10		\$0.38	
Lg. masonry	02220-110-0080	C.F.	B-8	20100		\$0.22	\$0.08		\$0.30	
Lg. mixed	02220-110-0100	C.F.	B-8	20100		\$0.22	\$0.08		\$0.30	
Sm. steel	02220-110-0500	C.F.	B-3	14800		\$0.25	\$0.07		\$0.32	
Sm. concrete	02220-110-0600	C.F.	B-3	11300		\$0.33	\$0.09		\$0.42	
Sm. masonry	02220-110-0650	C.F.	B-3	14800		\$0.25	\$0.07		\$0.32	
Sm. wood	02220-110-0700	C.F.	B-3	14800		\$0.25	\$0.07		\$0.32	
Wall Demolition										
Block 4 in (100 mm) thick	02220-130-2000	S.F.	1 Clab	180		\$3.33	\$0.00	20%	\$4.00	
Block 6 in (150 mm) thick	02220-130-2040	S.F.	1 Clab	170		\$3.52	\$0.00	20%	\$4.22	
Block 8 in (200 mm) thick	02220-130-2080	S.F.	1 Clab	150		\$3.99	\$0.00	20%	\$4.79	
Block 12 in (300 mm) thick	02220-130-2100	S.F.	1 Clab	150		\$3.99	\$0.00	20%	\$4.79	
Conc 6 in (150 mm) thick	02220-130-2400	S.F.	B-9	160		\$22.74	\$0.35	10%	\$25.40	
Conc 8 in (200 mm) thick	02220-130-2420	S.F.	B-9	140		\$25.98	\$0.40	10%	\$29.02	
Conc 10 in (250 mm) thick	02220-130-2440	S.F.	B-9	120		\$30.32	\$0.47	10%	\$33.87	
Conc 12 in (300 mm) thick	02220-130-2500	S.F.	B-9	100		\$36.38	\$0.56	10%	\$40.63	

**Closure Cost Estimate
Misc. Unit Costs**

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Waste Disposal										
Unit rates from Means Heavy Construction 2006 Edition by permission of R.S.Means/Reed Construction Data .										
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment		Total	Notes
Rubbish Handling										
Dumpster delivery (average for all sizes)	02220-350-0910	ea.							\$0.00	
Haul (average for all sizes)	02220-350-0920	ea.							\$0.00	
Rent per month (average for all sizes)	02220-350-0940	ea.							\$0.00	
Disposal fee per ton (tonne) (average for all sizes)	02220-350-0950	ton							\$0.00	
NOTES:										
Dumpster Cost Source:										
Dumpster Disposal Fee Source:										
Hazardous Material Handling - Solids (+ Liquids in drums)										
Pickup fees 55 gal (200 L). drums	02110-300-1100	ea.			\$265.00				\$265.00	
Bulk material (average)	02110-300-1220/1230	ton			\$432.50				\$432.50	
Transport - truck load (80 drums, 25 cy (m3), 18 tons)	02110-300-1260/1270	mile			\$6.22				\$6.22	
Dump site solid disposal fee	02110-300-6000/6020	ton			\$305.00				\$305.00	
NOTES:										
Solid Handling Cost Source:	RS Means Online - accessed 01/2025									
Solid Disposal Fee Source:										
Hazardous Material Handling - Liquids										
Vacuum Truck Pickup (2200 gal/8300 L)	02110-300-3110	hr.			\$155.00				\$155.00	
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3120	hr.			\$225.00				\$225.00	
Dump site liquid disposal fee	02110-300-6000/6020	ton			\$305.00				\$305.00	
NOTES:										
Liquid Handling Cost Source:	RS Means Online - Pulled 01/2025									
Liquid Disposal Fee Source:	RS Means Online - Pulled 01/2025									
Hydrocarbon Contaminated Soils (HCS)										
Insitu Biotreatment	02115-200-2020/2021	C.Y.			\$19.55				\$19.55	
HCS disposal fee	02115-200-2050/2055	C.Y.			\$271.55				\$271.55	
NOTES:										
Insitu Treatment Cost Source:	2024 Q2 RS Means Heavy Const., ave. 02 65									
HCS Disposal Fee Source:	2024 Q2 RS Means Heavy Const., ave. 02 65									

Closure Cost Estimate Misc. Unit Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO **Cost Basis:** Greens Creek - March 2026

Concrete Structure Installation										
Weekly dumpster rental rates from Means Heavy Construction 2005 Edition with permission by R.S.Means/Reed Construction Data . Weekly dumpster rental rates include haul to off-site disposal site and disposal fees										
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Reinforced Concrete Bulkheads and Shaft Covers										
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high	03310-240-4300	C.Y.	C-14D	80.02	\$208.00	\$209.53	\$6.21		\$423.74	includes reinforcing
Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high	03310-240-4350	C.Y.	C-14D	26.2	\$208.00	\$639.95	\$18.98		\$866.93	includes reinforcing
Elevated conc, 1-way beam & slab - 15ft (4.6m) span	03310-240-2700	C.Y.	C-14B	20.59	\$390.00	\$838.37	\$24.15		\$1,252.52	includes reinforcing
Elevated conc, 1-way beam & slab - 25ft (7.5m) span	03310-240-2750	C.Y.	C-14B	28.36	\$360.00	\$608.68	\$17.53		\$986.21	includes reinforcing
Bat Gate/Foam Plug Installation										
Bat Gate (5)		ea.			\$4,057.75					materials \$/ea. Installed
Culvert Gate (5)		ea.			\$8,115.49					materials \$/ea. Installed
Adit Foam Plug (6)		ea./C.Y.			\$405.77					materials \$/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			\$405.77					materials \$/cy placed
NOTES:										
(5) Bat Gate Source:	NV BLM, 2/2006: 8 hr + 1hr mob/demob + 1hr setup per gate (adjusted to 2015)									
(6) Foam Plug Source:	NV BLM, 2/2006: 8 hr + 1hr mob/demob + 1hr setup per adit; 16 hrs per production opening (adjusted to 2015)									

Closure Cost Estimate Misc. Unit Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Misc. Linear Projects

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Fencing Installation										
Barbed 3-strand	02820-170-1650	L.F.	B-80A	760	\$0.69	\$3.23	\$0.14		\$4.06	
Barbed 4-strand	extrapolated	L.F.	B-80A	570	\$0.92	\$4.31	\$0.19		\$5.42	
Barbed 5-strand	02820-130-0920	L.F.	B-80A	456	\$1.15	\$5.39	\$0.24		\$6.78	
Chain link 8-10ft (2.5-3m) Install	02820-130-0920	L.F.	B-80C	180	\$39.80	\$13.66	\$0.60		\$54.06	
Wood stockade fence 6 ft (2 m) high - Install	02820-510-1240	L.F.	B-80C	150	\$30.78	\$16.39	\$0.72		\$47.89	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
Fencing Removal										
Barbed 3-strand Removal	02220-220-1600	L.F.	2 Clab	430		\$4.32	\$0.25		\$4.57	
Barbed 4-strand Removal	extrapolated	L.F.	2 Clab	355		\$5.24	\$0.30		\$5.54	
Barbed 5-strand Removal	02220-220-1650	L.F.	2 Clab	280		\$6.64	\$0.38		\$7.02	
Chain link 8-10 ft (2.5-3 m) Removal	02220-220-1700	L.F.	B-6	445		\$4.18	\$0.86		\$5.04	
Wood, all types 4-6 ft ("1.5-2 m) high - Removal	02220-220-1775	L.F.	2 Clab	430		\$4.32	\$0.25		\$4.57	
	user	L.F.								
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
Culvert Removal										
12 in (300 mm) Diameter	02220-220-2900	L.F.	B-6	175		\$10.63	\$2.20		\$12.83	
18 in (450 mm) Diameter	02220-220-2930	L.F.	B-6	150		\$12.40	\$2.56		\$14.96	
24 in (600 mm) Diameter	02220-220-2960	L.F.	B-6	120		\$15.50	\$3.20		\$18.70	
36 in (1m) Diameter	02220-220-3000	L.F.	B-6	90		\$20.66	\$4.27		\$24.93	
Pipeline Removal										
0.75 in (20mm) - 4 in (100 mm) diameter	02220-381-1600	L.F.	B-20	700		\$3.51	\$0.15		\$3.66	
6 in (150 mm) - 8 in (200 mm)	02220-381-1700	L.F.	B-20	500		\$4.91	\$0.22		\$5.13	
10 in (250 mm) - 18 in (450 mm)	02220-381-1800	L.F.	B-20	300		\$8.18	\$0.36		\$8.54	
20 in (500 mm) - 36 in (1 m)	02220-381-1900	L.F.	B-20	200		\$12.28	\$0.54		\$12.82	
Pipe and Drainpipe Installation										
Water 4in (100mm) 40ft (12m) length, welded HDPE	02510-760-0100	L.F.	B-22A	400	\$4.54	\$9.58	\$2.50		\$16.62	
Water 6in (150mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A	380	\$8.90	\$10.08	\$2.63		\$21.61	
Water 12in (300mm) 40ft (12m) length, welded HDPE	02510-760-0500	L.F.	B-22A	260		\$14.73	\$3.85		\$18.58	
Drain 4in (100mm) perforated PVC	02620-630-2100	L.F.	B-14	315	\$15.28	\$13.70	\$1.08		\$30.06	
Drain 6in (150mm) perforated PVC	02620-630-2110	L.F.	B-14	300	\$19.83	\$14.39	\$1.13		\$35.35	
Drain 4in (100mm) corrugated, perf or plain	02620-660-0040	L.F.	2 Clab	1200	\$2.11	\$1.55	\$0.09		\$3.75	
Drain 6in (150mm) corrugated., perf or plain	02620-660-0060	L.F.	2 Clab	900	\$4.65	\$2.07	\$0.12		\$6.84	

Closure Cost Estimate Misc. Unit Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

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Cost Data: User Data

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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Drain Rock Preparation

Crushing		C.Y.							\$0.00	
Screening		C.Y.							\$0.50	
TOTAL									\$0.50	

Misc.

Backhoe work	02210-700-0120	C.Y.	B-11M	28		\$24.24	\$8.25		\$32.49	

Powerline and Transformer Removal

Single Pole		mile							\$56,395.00	
Double Pole		mile							\$64,452.00	
Transformer (9)		ea.							\$71,088.00	

NOTES:

(7) Single Pole Source:	
(8) Double Pole Source:	
(9) Transformer Source:	

Erosion and Sedimentation Control

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

	Means Number	Unit	Crew	Daily 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	\$78.00	\$45.68	\$6.55		\$130.23	assumes on-site source of rip-rap
Rip-Rap 18 in (450 mm) min thick, no grout	02370-450-0200	S.Y.	B-13	53	\$6.90	\$68.96	\$9.88		\$85.74	assumes on-site source of rip-rap
Gabions, 6 in (150 mm) deep	02370-450-0400	S.Y.	B-13	200	\$61.75	\$18.27	\$2.62		\$82.64	assumes on-site source rock fill for gabions
Gabions, 9 in (250 mm) deep	02370-450-0500	S.Y.	B-13	163	\$74.55	\$22.42	\$3.21		\$100.18	assumes on-site source rock fill for gabions
Gabions, 12 in (300 mm) deep	02370-450-0200	S.Y.	B-13	153	\$81.85	\$23.89	\$3.42		\$109.16	assumes on-site source rock fill for gabions
Gabions, 18 in (450 mm) deep	02370-450-0200	S.Y.	B-13	102	\$128.50	\$35.83	\$5.13		\$169.46	assumes on-site source rock fill for gabions
Gabions, 36 in (1m) deep	02370-450-0200	S.Y.	B-13	60	\$199.50	\$60.91	\$8.73		\$269.14	assumes on-site source rock fill for gabions

HDEP Liner Installation

Finish grading large area	2310-100-0100	S.F.	B-11L	54000		\$0.02	\$0.01		\$0.03	
Compaction-riding, vibrating roller - 12in (300mm) lifts	2315-310-5100	C.Y.	B-10Y	2600		\$0.48	\$0.09		\$0.57	
60 mil HDPE	2660-610-0010	S.F.	3 Skwk	1600	\$0.70	\$1.58	\$0.19	10%	\$2.72	
80 mil HDPE	user	S.F.	3 Skwk	149	\$9.00	\$16.92	\$2.06		\$27.98	
40 mil VLDPE	user	S.F.	3 Skwk	150	\$7.00	\$16.81	\$2.05		\$25.86	
	user	S.F.	3 Skwk	149		\$16.92	\$2.06		\$18.98	
	user	S.F.	3 Skwk	149		\$16.92	\$2.06		\$18.98	

Closure Cost Estimate
Misc. Unit Costs

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

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Construction Management Support											
Office Trailer, Furnished, no hook-ups		0150-500-0250	mo.				\$305.00			\$305.00	
Toilet Portable, chemical		1590-400-6410	mo.				\$233.81			\$233.81	
TOTAL							\$538.81			\$538.81	
Pump and Casing Removal											
	Pump Type	Measurement	Unit				Labor	Equipment		Total	Notes
Pump Removal											
Submersible		ft to pump	L.F.				\$15.17	\$37.29		\$52.46	
Line Shaft		ft to pump	L.F.				\$15.17	\$37.29		\$52.46	
NOTES:											
(10) Pump Removal Source: Boart Longyear Quote											

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
RIPPING						
Rip road Waste rock dumps, heaps, tails - rip flat surfaces Surface preparation Scarify						
Small Dozer w/ multi-shank						
D6R				\$77.48	\$84.83	\$162.31
Totals				\$77.48	\$84.83	\$162.31
Medium Dozer w/ multi-shank						
D8R				\$128.88	\$84.83	\$213.71
Totals				\$128.88	\$84.83	\$213.71
Large Dozer w/ multi-shank						
D10R				\$113.33	\$84.83	\$198.16
Totals				\$113.33	\$84.83	\$198.16
Grader w/ multi-shank						
16G/H				\$107.68	\$84.83	\$192.51
Totals				\$107.68	\$84.83	\$192.51
GRADING						
Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms						
Small Dozer Fleet						
D6R				\$77.48	\$84.83	\$162.31
Totals				\$77.48	\$84.83	\$162.31
Medium Dozer Fleet						
D8R				\$128.88	\$84.83	\$213.71
Totals				\$128.88	\$84.83	\$213.71
Large Dozer Fleet						
D10R				\$113.33	\$84.83	\$198.16
Totals				\$113.33	\$84.83	\$198.16
EXPLORATION GRADING						
Backfilling and grading exploration trenches Grading flat exploration roads						
Small Dozer Fleet						
D7R				\$66.57	\$84.83	\$151.40
Totals				\$66.57	\$84.83	\$151.40
Medium Dozer Fleet						
D8R				\$128.88	\$84.83	\$213.71
Totals				\$128.88	\$84.83	\$213.71
Large Dozer Fleet						
D8R				\$128.88	\$84.83	\$213.71
Totals				\$128.88	\$84.83	\$213.71

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
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EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
EXCAVATING						
Earthen Berms Diversion ditch excavation and backfill Underground openings backfill - excavate and place Pit berm construction (excavator option)						
Small Excavator						
325C				\$61.20	\$84.83	\$146.03
Totals				\$61.20	\$84.83	\$146.03
Medium Excavator						
345B				\$92.66	\$84.83	\$177.49
Totals				\$92.66	\$84.83	\$177.49
Large Excavator						
385BL				\$177.83	\$84.83	\$262.66
Totals				\$177.83	\$84.83	\$262.66
EXCAVATE AND RECONTOUR						
Recontour large roads (haul roads, access roads, etc.) Ponds - Excavate and pull liner and bury						
Small Excavator + Dozer						
325C				\$61.20	\$84.83	\$146.03
D6R				\$77.48	\$84.83	\$162.31
Total Equipment				\$138.68	\$169.66	\$308.34
Medium Excavator + Dozer						
345B				\$92.66	\$84.83	\$177.49
D9R				\$155.98	\$84.83	\$240.81
Totals				\$248.64	\$169.66	\$418.30
Large Excavator + Dozer						
385BL				\$177.83	\$84.83	\$262.66
D10R				\$113.33	\$84.83	\$198.16
Totals				\$291.16	\$169.66	\$460.82
EXPLORATION ROAD/PAD RECONTOUR						
Recontour small roads (exploration roads, service roads, etc.) Cut and Fill reclamation on slopes Drill pad recontour Drill sump backfill						
Small Dozer						
D6R				\$77.48	\$84.83	\$162.31
Totals				\$77.48	\$84.83	\$162.31
Large Dozer						
D8R				\$128.88	\$84.83	\$213.71
Totals				\$128.88	\$84.83	\$213.71
Grader						
14G/H				\$87.99	\$84.83	\$172.82
Totals				\$87.99	\$84.83	\$172.82
Small Excavator						
320C				\$48.73	\$84.83	\$133.56
Totals				\$48.73	\$84.83	\$133.56
Medium Excavator						
345B				\$92.66	\$84.83	\$177.49
Totals				\$92.66	\$84.83	\$177.49

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
LOAD, HAUL AND PLACE MATERIAL						
Rock placement Haul overburden for backfill Haul borrow for backfill Haul cover or growth media						
Small Truck/Loader Fleet						
740				\$86.91	\$82.57	\$169.48
988G	Loader			\$158.06	\$84.83	\$242.89
D7R		1		\$66.57	\$84.83	\$151.40
Totals				\$311.54	\$252.23	\$563.77
Medium Truck/Loader Fleet						
740				\$86.91	\$82.57	\$169.48
988G	Loader			\$158.06	\$84.83	\$242.89
D8R		1		\$128.88	\$84.83	\$213.71
Totals				\$373.85	\$252.23	\$626.08
Large Truck/Loader Fleet						
777D				\$63.32	\$82.57	\$145.89
992G	Loader			\$485.08	\$84.83	\$569.91
D10R		1		\$113.33	\$84.83	\$198.16
Totals				\$661.73	\$252.23	\$913.96
Extra Large Truck/Loader Fleet						
785C				\$91.67	\$82.57	\$174.24
992G	Loader			\$485.08	\$84.83	\$569.91
D11R		1		\$170.64	\$84.83	\$255.47
Totals				\$747.39	\$252.23	\$999.62
Scraper/Dozer Fleet						
631G				\$100.13	\$84.83	\$184.96
D10R				\$113.33	\$84.83	\$198.16
D7R		1		\$66.57	\$84.83	\$151.40
Totals				\$280.03	\$254.49	\$534.52
Tandem Scraper Fleet						
637G				\$156.42	\$84.83	\$241.25
D7R		1		\$66.57	\$84.83	\$151.40
Totals				\$222.99	\$169.66	\$392.65
MISC. LOAD AND HAUL AND EARTHWORKS						
Sludge removal Drainage controls						
Misc. - Cat 325B Excavator / 10-12 yd3 Truck						
325C				\$61.20	\$84.83	\$146.03
Dump Truck (10-12 yd3)				\$39.49	\$78.02	\$117.51
Totals				\$100.69	\$162.85	\$263.54
Misc. - Cat D9R Dozer/ Loader (5 yd3) / 10-12 yd3 Truck						
D9R				\$155.98	\$84.83	\$240.81
966G				\$90.71	\$84.83	\$175.54
Dump Truck (10-12 yd3)				\$39.49	\$78.02	\$117.51
Totals				\$286.18	\$247.68	\$533.86
Misc. - Cat D6 Dozer / Cat 966 Loader / 10-12 yd3 Truck						
D6R				\$77.48	\$84.83	\$162.31
966G				\$90.71	\$84.83	\$175.54
Dump Truck (10-12 yd3)				\$39.49	\$78.02	\$117.51
Totals				\$207.68	\$247.68	\$455.36

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
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Model Version: Version 1.4.1
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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
CONCRETE BREAKING						
Slab demolition Footing demolition Wall demolition						
Small - Cat 325B Excavator w/ H140D s Hammer						
325C				\$61.20	\$84.83	\$146.03
H-120 (fits 325)				\$27.43	\$0.00	\$27.43
D9R				\$155.98	\$84.83	\$240.81
Totals				\$244.61	\$169.66	\$414.27
Medium - Cat 345B Excavator w/ H180D s Hammer						
345B				\$92.66	\$84.83	\$177.49
H-160 (fits 345)				\$34.47	\$0.00	\$34.47
D9R				\$155.98	\$84.83	\$240.81
Totals				\$283.11	\$169.66	\$452.77
Large - Cat 385B Excavator w/ H180D s Hammer						
385BL				\$177.83	\$84.83	\$262.66
H-180 (fits 365/385)				\$56.14	\$0.00	\$56.14
D9R				\$155.98	\$84.83	\$240.81
Totals				\$389.95	\$169.66	\$559.61
DRILL HOLE ABANDONMENT						
Drill Hole - Grout or Cement						
Pump (plugging) Drill Rig				\$41.26	\$82.73	\$123.99
Driller's Helper		2		\$0.00	\$161.92	\$161.92
Totals				\$41.26	\$244.65	\$285.91
Drill Hole - Inert Media (Means Crew B-11M+ 1 Laborer)						
420D 4WD Backhoe				\$28.89	\$84.83	\$113.72
General Laborer		1		\$0.00	\$74.86	\$74.86
Totals				\$28.89	\$159.69	\$188.58
Drill Hole - Casing Perforation or Removal						
Heavy Duty Drill Rig				\$111.82	\$85.79	\$197.61
Driller's Helper		2		\$0.00	\$161.92	\$161.92
Totals				\$111.82	\$247.71	\$359.53
MAINTENANCE FLEET						
Road Grading, Dust Suppression, Clean Up						
Maintenance - Small Water Truck and Cat 14G Grader						
613E (5,000 gal) Water Wagon				\$70.35	\$78.02	\$148.37
120H				\$38.99	\$84.83	\$123.82
Totals				\$109.34	\$162.85	\$272.19
Maintenance - Medium Water Truck and Cat 16G Grader						
613E (5,000 gal) Water Wagon				\$70.35	\$78.02	\$148.37
14G/H				\$87.99	\$84.83	\$172.82
Totals				\$158.34	\$162.85	\$321.19
Maintenance - Large Water Truck and Cat 16G Grader						
777D Water Truck				\$63.32	\$78.02	\$141.34
16G/H				\$107.68	\$84.83	\$192.51
Totals				\$171.00	\$162.85	\$333.85
PROJECT SUPERVISION						
Foreman		1		\$0.00	\$72.56	\$72.56
Supervisor's Truck		1		\$7.18	\$82.73	\$89.91
Totals				\$7.18	\$155.29	\$162.47

**Closure Cost Estimate
Fleets (Crews)**

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Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
MEANS CREW DEFINITIONS						
Crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data . For use with misc. unit costs where Means is the source for productivity						
1 Clab - Seedling Planting/Block Wall Demolition						
General Laborer		1		\$0.00	\$74.86	\$74.86
Totals				\$0.00	\$74.86	\$74.86
2 Clab - Barbed Wire/Wood Fence Removal, Drainpipe Installation, Pumping, Evaporation						
General Laborer		2		\$0.00	\$149.72	\$149.72
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$13.46	\$232.45	\$245.91
2 Clab + Excavator - Pond Liner Cut and Fold						
General Laborer		2		\$0.00	\$149.72	\$149.72
325C				\$61.20	\$84.83	\$146.03
Totals				\$61.20	\$234.55	\$295.75
2 Clab + Welder - Bat Gates						
General Laborer		2		\$0.00	\$149.72	\$149.72
Welding Equipment				\$8.50	\$84.83	\$93.33
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$21.96	\$317.28	\$339.24
3 Clab - Foam Adit Plugs						
General Laborer		2		\$0.00	\$149.72	\$149.72
420D 4WD Backhoe				\$28.89	\$84.83	\$113.72
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$42.35	\$317.28	\$359.63
3 Clab + Welder - Culvert Bat Gate						
General Laborer		2		\$0.00	\$149.72	\$149.72
Welding Equipment				\$8.50	\$84.83	\$93.33
420D 4WD Backhoe				\$28.89	\$84.83	\$113.72
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$50.85	\$402.11	\$452.96
3 Clab D - 3 Laborers + Foreman - Decontamination						
General Laborer		3		\$0.00	\$224.58	\$224.58
Foreman		1		\$0.00	\$72.56	\$72.56
Supervisor's Truck		1		\$7.18	\$82.73	\$89.91
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$20.64	\$462.60	\$483.24
3 SKWK - Liner Installation						
Skilled Laborer		3		\$0.00	\$230.28	\$230.28
HDEP Welder (pipe or liner)		1		\$9.49	\$0.00	\$9.49
420D 4WD Backhoe		1		\$28.89	\$84.83	\$113.72
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
Totals				\$38.38	\$315.11	\$353.49

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-3 - Small Building Demolition						
LABOR						
General Laborer		2		\$0.00	\$149.72	\$149.72
Foreman		1		\$0.00	\$72.56	\$72.56
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
EQUIPMENT						
928G		1		\$48.02	\$82.73	\$130.75
Dump Truck (10-12 yd3)		2		\$78.98	\$156.04	\$235.02
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
Totals				\$127.00	\$461.05	\$588.05
B-6 - Chain Link Fence/Culvert Removal						
General Laborer		2		\$0.00	\$149.72	\$149.72
928G		1		\$48.02	\$82.73	\$130.75
Totals				\$48.02	\$232.45	\$280.47
B-8 - Large Building Demolition						
LABOR						
General Laborer		2		\$0.00	\$149.72	\$149.72
Foreman		1		\$0.00	\$72.56	\$72.56
				\$0.00		\$0.00
				\$0.00		\$0.00
				\$0.00		\$0.00
EQUIPMENT						
928G		1		\$48.02	\$82.73	\$130.75
20 Ton Crane		1		\$62.81	\$82.73	\$145.54
Dump Truck (10-12 yd3)		2		\$78.98	\$156.04	\$235.02
				\$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
Totals				\$189.81	\$543.78	\$733.59
B-9 - Concrete Wall Demolition						
General Laborer		4		\$0.00	\$299.44	\$299.44
Foreman		1		\$0.00	\$72.56	\$72.56
Air Compressor + tools				\$6.99	\$82.73	\$89.72
Totals				\$6.99	\$454.73	\$461.72

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-10Y - General Compaction						
General Laborer		1		\$0.00	\$74.86	\$74.86
CS533E Vibratory Roller		1		\$27.76	\$82.73	\$110.49
Totals				\$27.76	\$157.59	\$185.35
B-11L - Fine Grading for Evaporation Pond Liner Base						
General Laborer		1		\$0.00	\$74.86	\$74.86
14G/H		1		\$87.99	\$84.83	\$172.82
Totals				\$87.99	\$159.69	\$247.68
B-11M - Backhoe Work						
420D 4WD Backhoe		1		\$28.89	\$84.83	\$113.72
Totals				\$28.89	\$84.83	\$113.72
B-12G - Rip-Rap Machine Placed (Modified)						
966G		1		\$90.71	\$84.83	\$175.54
325C		1		\$61.20	\$84.83	\$146.03
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$165.37	\$252.39	\$417.76
B-13 - Grouted Rip-Rap & Gabion Baskets						
General Laborer		4		\$0.00	\$299.44	\$299.44
Foreman		1		\$0.00	\$72.56	\$72.56
50 Ton Crane		1		\$65.45	\$84.83	\$150.28
Totals				\$65.45	\$456.83	\$522.28
B-14 PVC Drain Pipe Installation						
Foreman		1		\$0.00	\$72.56	\$72.56
General Laborer		4		\$0.00	\$299.44	\$299.44
420D 4WD Backhoe		1		\$28.89	\$84.83	\$113.72
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$42.35	\$539.56	\$581.91
B-20 - Remove Pipelines						
Foreman		1		\$0.00	\$72.56	\$72.56
Skilled Laborer		1		\$0.00	\$76.76	\$76.76
General Laborer		1		\$0.00	\$74.86	\$74.86
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$13.46	\$306.91	\$320.37
B-22A - HDEP Installation - Pipe or Liner						
Skilled Laborer		1		\$0.00	\$76.76	\$76.76
General Laborer		2		\$0.00	\$149.72	\$149.72
D7R		1		\$66.57	\$84.83	\$151.40
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
420D 4WD Backhoe		1		\$28.89	\$84.83	\$113.72
Generator 5KW		1		\$6.75	\$0.00	\$6.75
HDEP Welder (pipe or liner)		1		\$9.49	\$0.00	\$9.49
Totals				\$125.16	\$478.87	\$604.03
B-80A - Install Barbed Wire Fence						
General Laborer		3		\$0.00	\$224.58	\$224.58
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$13.46	\$307.31	\$320.77

**Closure Cost Estimate
Fleets (Crews)**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

EQUIPMENT FLEETS						
ACTIVITY AND FLEET		Standard Labor Crew	User Defined Labor Crew	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-80C - Install Chain Link Fence (Flatbed truck has small crane)						
General Laborer		3		\$0.00	\$224.58	\$224.58
Light Truck - 1.5 Ton		1		\$13.46	\$82.73	\$96.19
Totals				\$13.46	\$307.31	\$320.77
C-14B - Elevated Concrete Slabs (Reinforced Concrete Shaft Covers)						
Foreman		1		\$0.00	\$72.56	\$72.56
Supervisor's Truck		1		\$7.18	\$82.73	\$89.91
Carpenter		16		\$0.00	\$1,316.96	\$1,316.96
General Laborer		2		\$0.00	\$149.72	\$149.72
Rodmen (reinforcing concrete)		4		\$0.00	\$302.04	\$302.04
Cement finisher		2		\$0.00	\$151.02	\$151.02
Gas Engine Vibrator		1		\$5.45	\$82.73	\$88.18
Concrete Pump		1		\$49.53	\$0.00	\$49.53
Totals				\$62.16	\$2,157.76	\$2,219.92
C-14D - Concrete Walls Formed in Place (Reinforced Concrete Adit Bulkheads)						
Foreman		1		\$0.00	\$72.56	\$72.56
Supervisor's Truck		1		\$7.18	\$82.73	\$89.91
Carpenter		18		\$0.00	\$1,481.58	\$1,481.58
General Laborer		2		\$0.00	\$149.72	\$149.72
Rodmen (reinforcing concrete)		2		\$0.00	\$151.02	\$151.02
Cement finisher		1		\$0.00	\$75.51	\$75.51
Gas Engine Vibrator		1		\$5.45	\$82.73	\$88.18
Concrete Pump		1		\$49.53	\$0.00	\$49.53
Totals				\$62.16	\$2,095.85	\$2,158.01

Closure Cost Estimate
Productivity

Productivity - Bulldozers

Dozer Specifications						
Description	D11R	D10R	D9R	D8R	D7R	D6R
Blade Width (SU) (ft)	18.33	15.92	14.17	12.92	12.08	10.67
Shank Gauge (3 shanks) (ft)	9.83	8.67	7.67	7.08	6.5	5.5
Pocket Spacing (ft)	4.75	4.33	3.87	3.58	3.25	3.25
Ripping Width (Ripper + 1 Pocket) (ft)	14.58	13	11.54	10.66	9.75	9.75
Ripping Speed (mph)	1	1	1	1	1	1
Ripping Maneuver (turn) Time (min)	0.25	0.25	0.25	0.25	0.25	0.25
Altitude Deration Factor	1	1	1	1	1	1
Ripping Hourly Production (excluding maneuvering time) (ft)	5,280	5,280	5,280	5,280	5,280	5,280

Source: Caterpillar Performance Handbook Edition 35

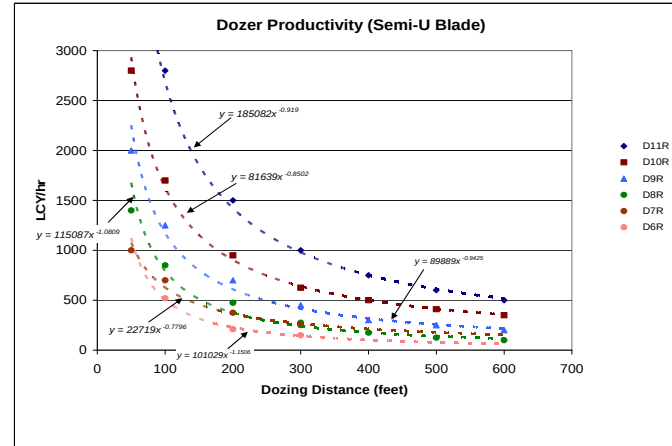
Dozer Productivity vs. Grading Distance						
Average Dozing Distance (feet)	Production (LCY/hr)					
	D11R	D10R	D9R	D8R	D7R	D6R
50	4,800	2,800	2,000	1,400	1,000	
100	2,800	1,700	1,250	850	700	520
200	1,500	950	700	475	375	210
300	1,000	625	450	275	250	150
400	750	500	300	175		
500	600	410	250	125		
600	500	350	200	100		

Source: Caterpillar Performance Handbook Edition 35

dozer productivity = k x Dozing Distance^p

(see graph)

k =	185082	81639	89889	115087	22719	101029
p =	-0.919	-0.8502	-0.9425	-1.0809	-0.7796	-1.1506



Closure Cost Estimate
Productivity

Productivity - Bulldozers (cont.)

% Grade vs. Dozing Factor	
% Grade	Dozing Factor
-30	1.6
-20	1.4
-10	1.2
0	1
10	0.8
20	0.55
30	0.3

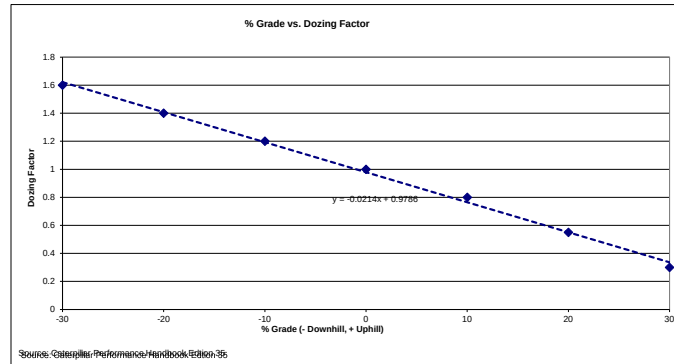
Source: Caterpillar Performance Handbook Edition 35
% Grade Dozing Factor = $-0.0214x + 0.9786$
(see graph)

Job Condition Correction Factors - Bulldozers	
OPERATOR	
Average	0.75
MATERIAL ⁽¹⁾	
Loose stockpile	1.2
Normal	1
Hard to cut, frozen — with tilt cylinder	0.8
Hard to drill, "dead" (dry, non-cohesive material) or very sticky material	0.8
Rock, ripped or blasted	0.6
SLOT DOZING OR SIDE BY SIDE (1)	1.2
VISIBILITY	
Good conditions	1
JOB EFFICIENCY	
50 min/hr	0.83

(1) Selected in facility worksheets.
Other factors included as standard factors.
Source: Caterpillar Performance Handbook Edition 35

Material Densities(1)		
Material	lb/cy	kg/m ³
Alluvium	2,900	1,720
Basalt	3,300	1,960
Clay - Dry	2,500	1,480
Granite - broken	2,800	1,660
Gravel	2,550	1,510
LS - broken	2,600	1,540
LS - crushed	2,600	1,540
Sandstone	2,550	1,510
Shale	2,100	1,250
Stone - crushed	2,700	1,600
Tailings - Coarse (dry, loose sand)	2,400	1,420
Tailings - Slimes (loose sand & clay)	2,700	1,600
Topsoil	1,600	950

(1) Source: Caterpillar Performance Handbook Edition 35



Note: uses Sand & Gravel - Dry from Caterpillar Handbook

**Closure Cost Estimate
Productivity**

Productivity - Scrapers

Scraper Specifications		
Description	631G	637G
Empty Weight	100,600	112,760
Payload Capacity (cy)		
Struck	24	24
Heaped	34	34
Average	29	29
Loaded by	One D10R	Self*
Load Time (min)	1	1
Maneuver and Spread (min)	1	1
Job Efficiency	1	1
Rolling Resistance**	3	3
Altitude Deration Factor	1	1
* Requires pair		
**A firm, smooth, rolling roadway with dirt or light surfacing. Flexing slightly under load or undulating, maintained fairly regularly, watered		
Source: Caterpillar Performance Handbook Edition 35		

Weight of Materials			Downhill Scraper Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)											
			631G						637G PP					
Material	lb/cy	Scraper Load lb	Loaded Weight (lbs)	22	16	10	5	1	Loaded Weight (lbs)	25	15	10	5	1
Alluvium	2,900	84,100	184,700	7.5	10	13	33	33	196,860	7	10	18.5	34	34
Basalt	3,300	95,700	196,300	7.5	10	13	24.5	33	208,460	7	10	18.5	25	34
Clay - Dry	2,500	72,500	173,100	7.5	10	13	33	33	185,260	7	10	18.5	34	34
Granite - broken	2,800	81,200	181,800	7.5	10	13	33	33	193,960	7	10	18.5	34	34
Gravel	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34
LS - broken	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34
LS - crushed	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34
Sandstone	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34
Shale	2,100	60,900	161,500	7.5	10	18	33	33	173,660	10	13.5	18.5	34	34
Stone - crushed	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34
Tailings - Coarse (dry, loose sand)	2,400	69,600	170,200	7.5	10	13	33	33	182,360	7	10	18.5	34	34
Tailings - Slimes (loose sand & clay)	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34
Topsoil	1,600	46,400	147,000	7.5	10	18	33	33	159,160	10	13.5	18.5	34	34
			Empty	10	18	24.5	33	33	Empty	10	13.5	18.5	34	34
			Source: Caterpillar Performance Handbook Edition 34											

Closure Cost Estimate Productivity

Productivity - Scrapers (cont.)

631G Scraper Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	825	2,250	5,300				2142.7	1.3418
2	750	1,800	4,600				1838.1	1.3083
4	550	1,400	3,000	4,800	6,700		1310.7	1.1893
6	490	1,000	2,200	3,300	4,500	5,600	1022.1	1.066
8	375	750	1,600	2,500	3,300	4,200	769.01	1.0558
10	300	700	1,300	2,000	2,750	3,450	645.84	1.0424
12	250	550	1,100	1,700	2,250	2,800	531.04	1.0453
14	225	450	900	1,400	1,850	2,250	452.07	1.0089

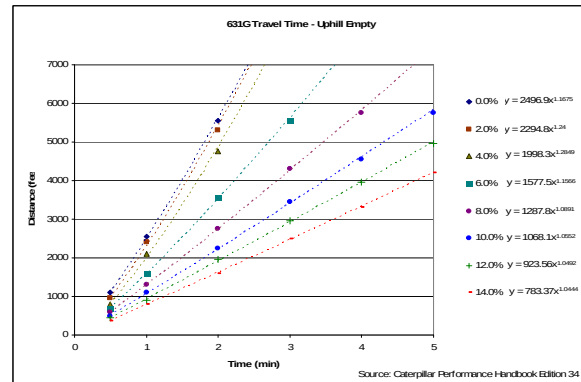
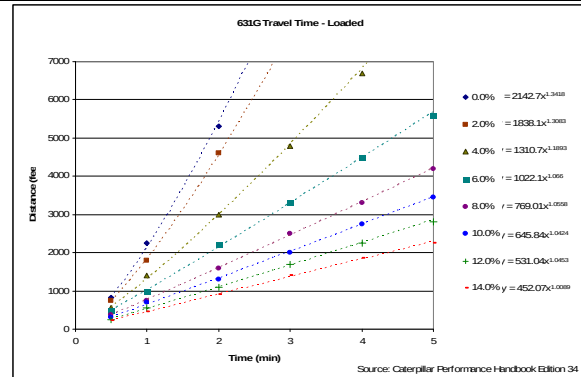
$$\text{Travel Time (min)} = \sqrt{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35

631G Scraper Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	1,100	2,550	5,550				2496.9	1.1675
2	950	2,400	5,300				2294.8	1.124
4	800	2,100	4,750				1998.3	1.2849
6	700	1,600	3,550	5,550			1557.5	1.1566
8	600	1,300	2,750	4,300	5,750		1287.8	1.0891
10	500	1,100	2,250	3,450	4,550	5,750	1068.1	1.0552
12	450	900	1,950	2,950	3,950	4,950	923.56	1.0492
14	375	800	1,600	2,500	3,300	4,200	783.37	1.0444

$$\text{Travel Time (min)} = \sqrt{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



Closure Cost Estimate Productivity

Productivity - Scrapers (cont.)

637G Push-Pull Scraper Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)					k	p	
	0.5	1	2	3	4			
0	1,000	2,500	5,550			2402.9	1.2362	
2	850	2,200	5,150			2127.6	1.2995	
4	700	1,700	3,900	6,250		1659.4	1.2212	
6	600	1,300	2,750	4,300	5,750	1287.8	1.0891	
8	500	1,100	2,200	3,300	4,500	1059.1	1.0421	
10	400	850	1,750	2,700	3,600	839.89	1.0503	
12	375	750	1,500	2,300	3,000	751.58	1.0055	
14	275	600	1,300	2,000	2,650	595.28	1.0794	

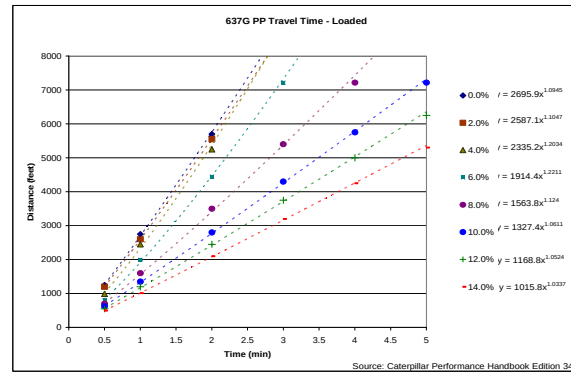
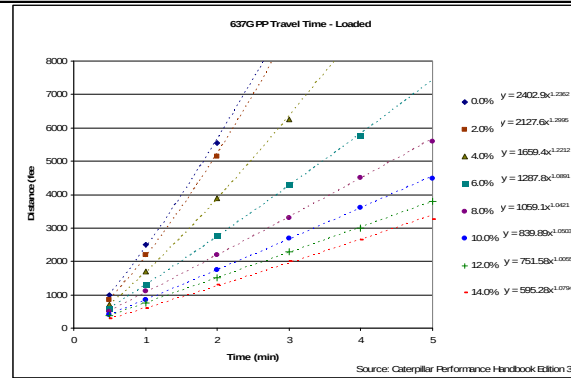
$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35

637G Push-Pull Scraper Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)					k	p	
	0.5	1	2	3	4			
0	1,250	2,750	5,700			2695.9	1.0945	
2	1,200	2,600	5,550			2587.1	1.1047	
4	990	2,450	5,250			2335.2	1.0234	
6	800	2,000	4,450	7,216		1914.4	1.2211	
8	700	1,600	3,500	5,400	7,216	1563.8	1.124	
10	625	1,350	2,800	4,300	5,750	1327.4	1.0611	
12	550	1,200	2,450	3,750	5,000	1168.8	1.0524	
14	495	1,010	2,100	3,200	4,250	1015.8	1.0337	

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



**Closure Cost Estimate
Productivity**

Productivity - Haul Trucks

Haul Truck Specifications						
Description	769D	773E	777D	785C	793C	797B
Chassis Weight (lb)	53,506	70,330	113,160	170,000	259,500	473,600
Body Weight (lb)	17,350	20,300	34,785	36,788	70,785	104,200
Standard Liner Weight (lb)	7,000	8,600	12,040	16,846	24,418	8,800
Total Truck Weight (lb)	77,856	99,230	159,985	223,634	354,703	586,600
Payload Capacity (cy)						
Struck	21.6	34.8	55	78.5	126	228
Heaped	31.7	46	78.6	102	169	290
Average	26.65	40.4	66.8	90.25	147.5	259
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7	0.7	0.7
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1	1.1	1.1
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5
Altitude Deration Factor	1	1	1	1	1	1

*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

Weight of Materials				Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)															
				769D					773E					777D					
Material	lb/cy	Truck (769D) Load lb	Truck (773E) Load lb	Truck (777D) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	77,285	117,160	193,720	155,141	11	11	15	26	216,390	7	7	13	23	353,705	7	9	12	29
Basalt	3,300	87,945	133,320	220,440	165,801	11	11	11	20	232,550	7	7	13	23	380,425	7	7	12	21
Clay - Dry	2,500	66,625	101,000	167,000	144,481	11	11	15	26	200,230	7	9	13	23	326,985	7	9	16	29
Granite - broken	2,800	74,620	113,120	187,040	152,476	11	11	15	26	212,350	7	7	13	23	347,025	7	9	12	29
Gravel	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
LS - broken	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
LS - crushed	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
Sandstone	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
Shale	2,100	55,965	84,840	140,280	133,821	11	11	15	26	184,070	7	9	13	31	300,265	7	9	16	29
Stone - crushed	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Tailings - Coarse (dry, loose sand)	2,400	63,960	96,960	160,320	141,816	11	11	15	26	196,190	7	9	13	23	320,305	7	9	16	29
Tailings - Slimes (loose sand & clay)	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Topsoil	1,600	42,640	64,640	106,880	120,496	11	11	15	26	163,870	7	9	17	31	266,865	9	12	16	29
					Empty	15	15	26	36	Empty	13	17	23	42	Empty	16	16	29	39

Source: Caterpillar Performance Handbook Edition 35

Weight of Materials				Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)															
				785C					793C					797B					
Material	lb/cy	Truck (785C) Load lb	Truck (793C) Load lb	Truck (797B) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	261,725	427,750	751,100	485,359	8	8	14	27	782,453	7	7	10	17	1,337,700	7	7	9	17
Basalt	3,300	297,825	486,750	854,700	521,459	8	8	14	27	841,453	7	7	10	17	1,441,300	7	7	9	17
Clay - Dry	2,500	225,625	368,750	647,500	449,259	8	11	14	36	723,453	7	7	10	25	1,234,100	7	7	9	23
Granite - broken	2,800	252,700	413,000	725,200	476,334	8	8	14	27	767,703	7	7	10	17	1,311,800	7	7	9	17
Gravel	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
LS - broken	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
LS - crushed	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
Sandstone	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
Shale	2,100	189,625	309,750	543,900	413,159	8	11	14	36	664,453	7	7	10	25	1,130,500	7	7	13	23
Stone - crushed	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Tailings - Coarse (dry, loose sand)	2,400	216,600	354,000	621,600	440,234	8	11	14	36	708,703	7	7	10	25	1,208,200	7	7	9	23
Tailings - Slimes (loose sand & clay)	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Topsoil	1,600	144,400	236,000	414,400	368,034	8	11	19	36	590,703	7	10	13	25	1,001,000	7	9	13	23
					Empty	14	19	36	36	Empty	10	13	17	33	Empty	13	17	23	42

Source: Caterpillar Performance Handbook Edition 35

Closure Cost Estimate Productivity

Productivity - Haul Trucks (cont.)

769D Haul Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	1.148	3.428	7.183				3316.3	1.1422
4	689	1.984	4.198	6.330			1928.3	1.1033
6	508	1.427	2.952	4.510	6.002		1386.4	1.0725
8	394	1.082	2.263	3.411	4.592	5.740	1061.8	1.06
10	328	869	1.771	2.690	3.608	4.510	857.82	1.0373
15	213	574	1.181	1.804	2.394	3.018	565	1.0482

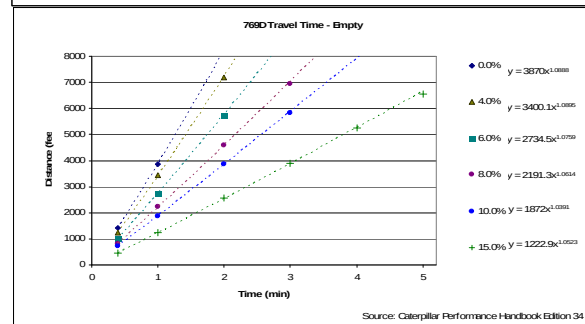
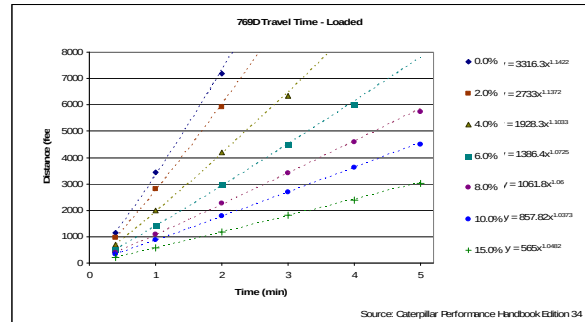
$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35

769D Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	1.427	3.870					3870	1.0888
4	1.246	3.444	7.183				3400.1	1.0895
6	1.017	2.755	5.740				2734.5	1.0759
8	820	2.230	4.592	6.954			2191.3	1.0614
10	722	1.870	3.870	5.838			1872	1.0391
15	459	1.246	2.558	3.903	5.248	6.560	1222.9	1.0523

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



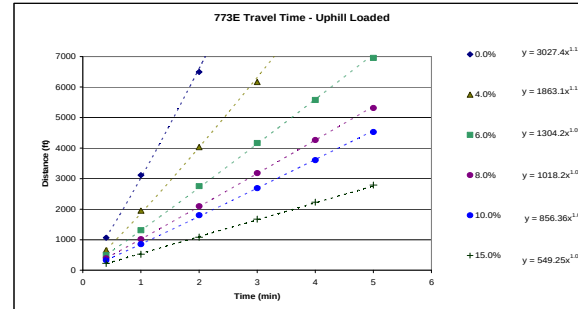
Closure Cost Estimate Productivity

Productivity - Haul Trucks (cont.)

773E Haul Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	1,066	3,117	6,496	6,168			3027.4	1.1254
4	656	1,952	4,035	4,167			1863.1	1.1109
6	492	1,312	2,756	4,167	5,577	6,955	1304.2	1.0507
8	394	1,017	2,100	3,182	4,265	5,315	1018.2	1.0326
10	328	853	1,804	2,690	3,609	4,528	856.36	1.041
15	226	525	1,083	1,673	2,231	2,789	549.25	1.0638

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

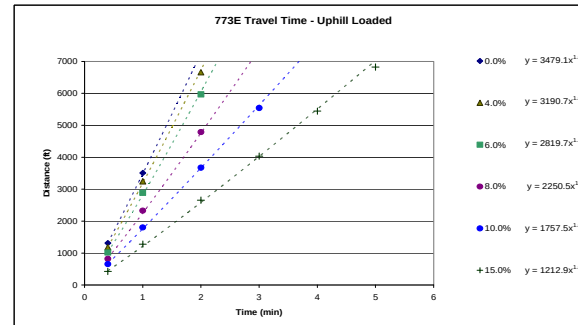
Source: Caterpillar Performance Handbook Edition 35



773E Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	1,312	3,510	7,218				3479.1	1.0502
4	1,151	3,248	6,660				3190.7	1.0763
6	1,017	2,887	5,971				2819.7	1.1018
8	820	2,329	4,790	7,218			2250.5	1.08
10	656	1,804	3,675	5,545			1757.5	1.0592
15	427	1,280	2,657	4,035	5,446	6,824	1212.9	1.0915

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



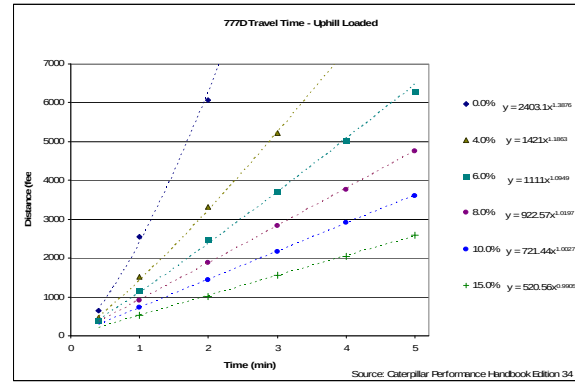
Closure Cost Estimate Productivity

Productivity - Haul Trucks (cont.)

777D Haul Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	656	2,558	6,068	5,215	7,085		2403.1	1.3876
4	459	1,509	3,313	3,706	5,018		1412	1.1863
6	394	1,148	2,460	3,706	5,018	6,298	1111	1.0949
8		918	1,886	2,837	3,772	4,756	922.57	1.0197
10		722	1,443	2,165	2,919	3,608	721.44	1.0027
15		525	1,017	1,558	2,034	2,591	520.56	0.9905

$$\text{Travel Time (min)} = \sqrt{\frac{\text{distance}}{k}}$$

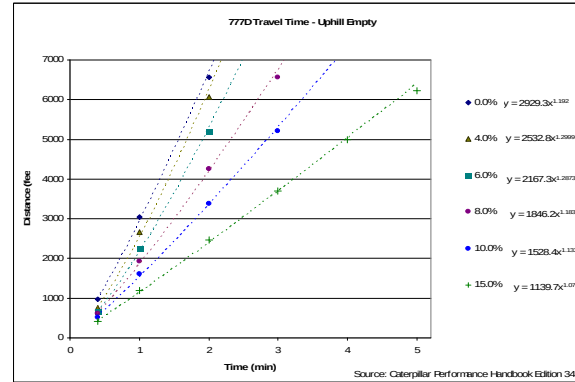
Source: Caterpillar Performance Handbook Edition 35



777D Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	968	3,034	6,560				2929.3	1.1192
4	754	2,657	6,068				2532.8	1.2399
6	656	2,247	5,182				2167.3	1.2873
8	607	1,935	4,248	6,560			1846.2	1.1831
10	525	1,607	3,378	5,215	7,282		1528.4	1.1332
15	410	1,197	2,460	3,706	4,986	6,232	1139.7	1.072

$$\text{Travel Time (min)} = \sqrt{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



Closure Cost Estimate Productivity

Productivity - Haul Trucks (cont.)

785C Haul Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	820	2,630	5,500				2491.1	1.1872
4	530	1,600	3,370	5,040			1524.4	1.1206
6	300	1,000	2,180	3,270	4,400	5,570	923	1.1469
8	240	790	1,610	2,480	3,380	4,200	719.64	1.1233
10	190	630	1,400	2,180	2,920	3,650	590.43	1.1678
15	40	370	770	1,200	1,590	2,000	227.29	1.4863

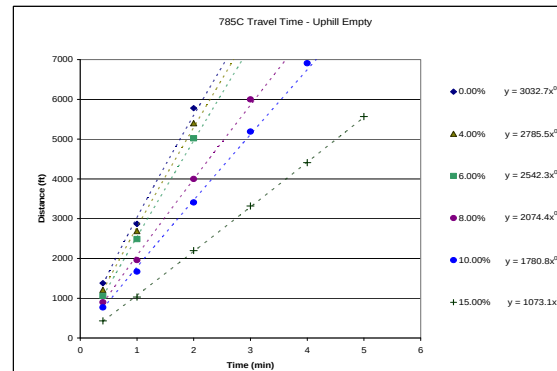
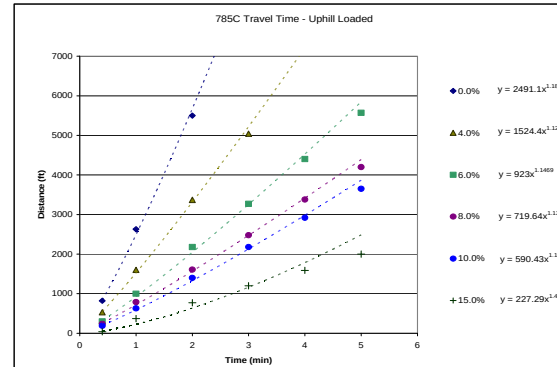
$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35

785C Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.4	1	2	3	4	5		
0	1,380	2,870	5,780				3032.7	0.8852
4	1,210	2,690	5,400				2785.5	0.9264
6	1,060	2,490	5,020				2542.3	0.9645
8	900	1,960	4,000	6,000			2074.4	0.9446
10	770	1,670	3,410	5,190	6,910		1780.8	0.9606
15	430	1,030	2,200	3,320	4,410	5,570	1073.1	1.0209

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



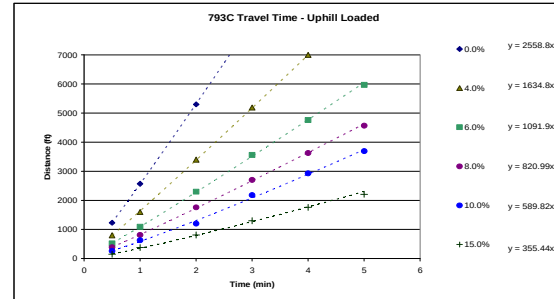
Closure Cost Estimate Productivity

Productivity - Haul Trucks (cont.)

793C Haul Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	1,230	2,570	5,300	5,190	7,000		2558.8	1.0537
4	800	1,600	3,400	3,560	4,760		1634.8	1.0485
6	520	1,090	2,300	2,700	3,690	5,970	1091.9	1.0635
8	390	810	1,760	2,180	2,930	4,570	820.99	1.0743
10	260	630	1,200	1,580	2,180	3,690	589.82	1.1481
15	150	380	810	1,300	1,760	2,210	355.44	1.1605

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

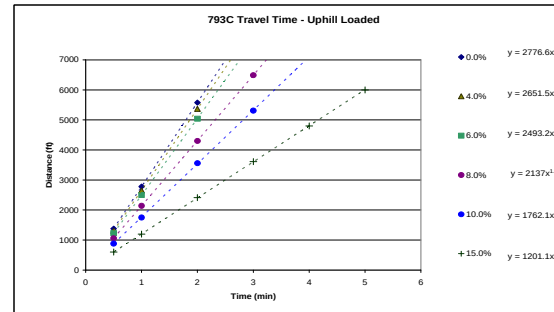
Source: Caterpillar Performance Handbook Edition 35



793C Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	1,380	2,780	5,580				2776.6	1.0078
4	1,310	2,650	5,370				2651.5	1.0177
6	1,230	2,500	5,040				2493.2	1.0174
8	1,060	2,140	4,300	6,490			2137	1.0107
10	880	1,750	3,560	5,310			1762.1	1.0059
15	600	1,200	2,410	3,610	4,800	6,000	1201.1	1.0003

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



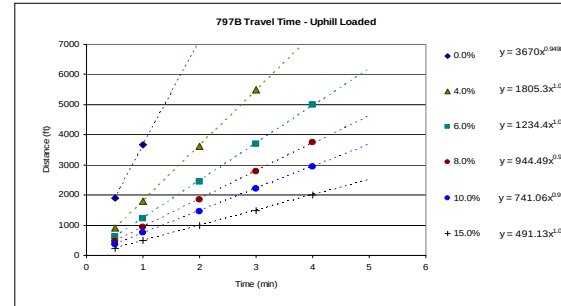
Closure Cost Estimate Productivity

Productivity - Haul Trucks (cont.)

797B Haul Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)					k	p	
	0.5	1	2	3	4			
0	1,900	3,670				3670	0.9498	
4	900	1,800	3,620	5,480		1805.3	1.0077	
6	620	1,230	2,450	3,700	5,000	1234.4	1.0019	
8	480	940	1,850	2,790	3,750	944.49	0.987	
10	370	750	1,460	2,220	2,950	741.06	0.9957	
15	240	500	1,000	1,480	2,000	491.13	1.0142	

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

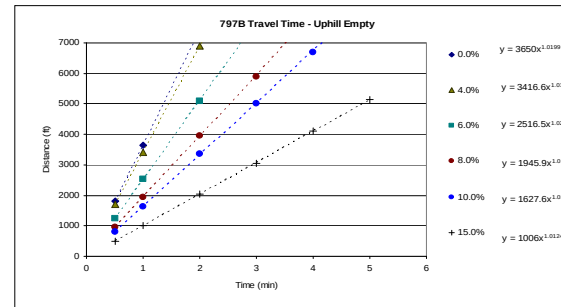
Source: Caterpillar Performance Handbook Edition 35



797B Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)					k	p	
	0.5	1	2	3	4			
0	1,800	3,650				3650	1.0199	
4	1,700	3,400	6,900			3416.6	1.0105	
6	1,240	2,520	5,100			2516.5	1.0201	
8	960	1,950	3,960	5,900		1945.9	1.0152	
10	800	1,620	3,350	5,000	6,700	1627.6	1.0239	
15	500	1,000	2,040	3,050	4,100	1006	1.0124	

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



**Closure Cost Estimate
Productivity**

Productivity - Articulated Trucks

Articulated Truck Specifications				
Description	725	730	735	740
Chassis Weight (lb)				
Body Weight (lb)				
Standard Liner Weight (lb)				
Operating Weight (Empty) (lb)	50,120	51,220	65,830	72,070
Payload Capacity (cy)				
Struck	14.5	17.1	19.3	23.3
Heaped	18.8	22.1	31.8	30.2
Average	16.65	19.6	25.55	26.75
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1
Job Efficiency	0.83	0.83	0.83	0.83
Rolling Resistance**	2.5	2.5	2.5	2.5
Altitude Deration Factor	1	1	1	1
**A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered				
Source: Caterpillar Performance Handbook Edition 35				

Weight of Materials				Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)									
				725					730				
Material	lb/cy	Truck (725) Load lb	Truck (730) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	48,285	56,840	98,405	9	9	13	30	108,060	5	8	13	29
Basalt	3,300	54,945	64,680	105,065	5	9	13	22	115,900	5	8	13	29
Clay - Dry	2,500	41,625	49,000	91,745	9	13	13	30	100,220	8	8	13	29
Granite - broken	2,800	46,620	54,880	96,740	9	13	13	30	106,100	5	8	13	29
Gravel	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
LS - broken	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
LS - crushed	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
Sandstone	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
Shale	2,100	34,965	41,160	85,085	9	13	22	30	92,380	8	13	13	29
Stone - crushed	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Tailings - Coarse (dry, loose sand)	2,400	39,960	47,040	90,080	9	13	13	30	98,260	8	8	13	29
Tailings - Slimes (loose sand & clay)	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Topsoil	1,600	26,640	31,360	76,760	9	13	22	30	82,580	8	13	22	35
				Empty	13	13	22	30	Empty	13	13	22	35
Source: Caterpillar Performance Handbook Edition 35													

Weight of Materials				Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)									
				735					740				
Material	lb/cy	Truck (735) Load lb	Truck (740) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	74,095	77,575	139,925	7	9	13	27	149,645	7	9	17	23
Basalt	3,300	84,315	88,275	150,145	7	9	13	27	160,345	7	9	13	23
Clay - Dry	2,500	63,875	66,875	129,705	7	9	13	27	139,945	9	13	17	31
Granite - broken	2,800	71,540	74,900	137,370	7	9	13	27	146,970	7	9	17	23
Gravel	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
LS - broken	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
LS - crushed	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
Sandstone	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
Shale	2,100	53,655	56,175	119,485	9	9	18	27	128,245	7	13	17	31
Stone - crushed	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Tailings - Coarse (dry, loose sand)	2,400	61,320	64,200	127,150	7	9	13	27	136,270	9	13	17	31
Tailings - Slimes (loose sand & clay)	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Topsoil	1,600	40,880	42,800	106,710	9	13	18	36	114,870	9	13	17	31
				Empty	13	18	27	42	Empty	17	17	23	31
Source: Caterpillar Performance Handbook Edition 35													

**Closure Cost Estimate
Productivity**

Productivity - Articulated Trucks (cont.)

725 Articulated Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	600	2,190	5,200	5,000	6,820		2097.3	1.3455
4	420	1,400	3,200				1329.1	1.2109
6	400	1,080	2,390	3,630	4,950	6,200	1091.2	1.0904
8	380	880	1,850	2,850	3,850	4,820	928.59	1.0158
10	300	729	1,450	2,250	3,020	3,800	741.09	1.0076
15	200	500	1,000	1,570	2,100	2,620	504.55	1.0225

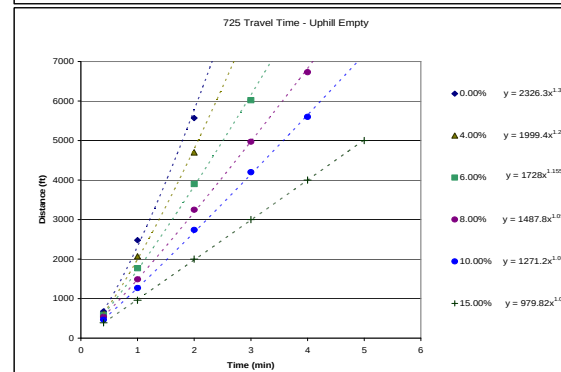
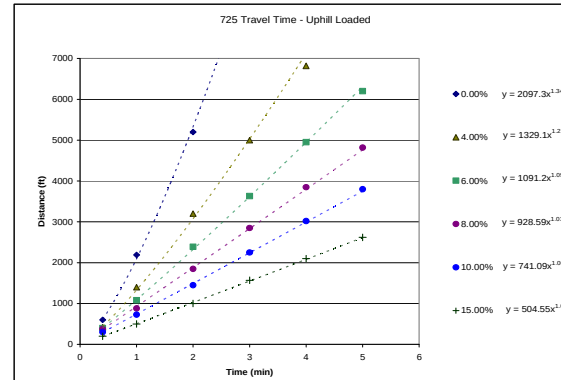
$$\text{Travel Time (min)} = \sqrt[3]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35

725 Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	680	2,480	5,570				2326.3	1.3122
4	620	2,070	4,700				1999.4	1.2616
6	590	1,770	3,900	6,020			1728	1.1556
8	540	1,490	3,250	4,970	6,730		1487.8	1.0986
10	470	1,270	2,740	4,200	5,600	7,050	1271.2	1.0754
15	390	960	2,000	3,000	4,000	5,000	979.82	1.0145

$$\text{Travel Time (min)} = \sqrt[3]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



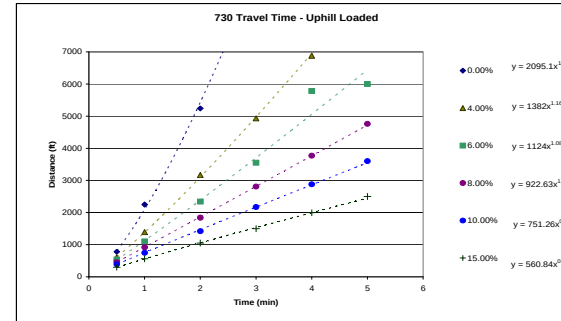
Closure Cost Estimate Productivity

Productivity - Articulated Trucks (cont.)

730 Articulated Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	780	2,250	5,240				2095	1.374
4	610	1,390	3,170	4,930	6,880		1382	1.1851
6	540	1,100	2,340	3,550	5,780	6,000	112	1.0847
8	460	920	1,840	2,810	3,770	4,760	922.63	1.0145
10	390	750	1,420	2,170	2,880	3,600	751.26	0.965
15	300	560	1,050	1,500	1,995	2,500	560.84	0.9152

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

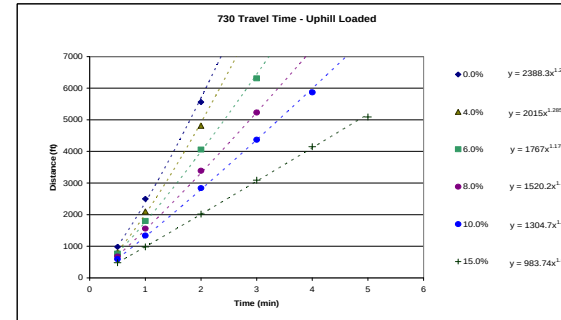
Source: Caterpillar Performance Handbook Edition 35



730 Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	980	2,500	5,560				2388	1.25621
4	810	2,100	4,810				2015	1.285
6	770	1,860	4,060	6,310			1767	1.1765
8	680	1,560	3,390	5,230	7,070		1520.2	1.1252
10	595	1,340	2,840	4,370	5,870		1304.7	1.0994
15	480	980	2,020	3,090	4,150	5,090	983.74	1.0321

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



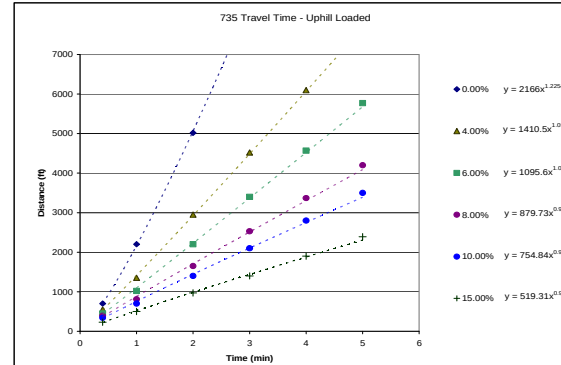
Closure Cost Estimate Productivity

Productivity - Articulated Trucks (cont.)

735 Articulated Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)					k	p	
	0.5	1	2	3	4			
0	700	2,200	5,020	4,520	6,100	2166	1.2254	
4	550	1,350	2,950	4,520	6,100	1410.5	1.0528	
6	450	1,020	2,200	3,400	4,570	1095.6	1.0223	
8	390	810	1,650	2,530	3,370	879.73	0.9546	
10	340	700	1,400	2,100	2,800	754.84	0.9332	
15	230	500	970	1,400	1,900	519.31	0.9268	

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

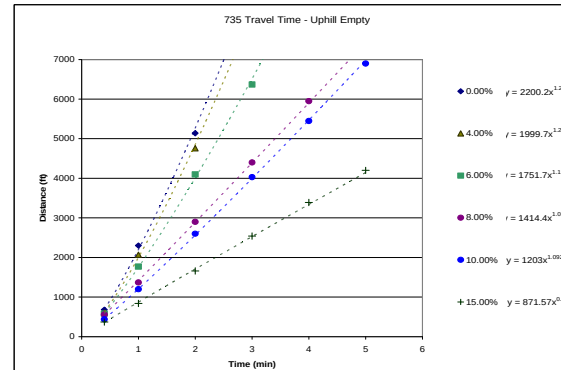
Source: Caterpillar Performance Handbook Edition 35



735 Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)					k	p	
	0.5	1	2	3	4			
0	680	2,300	5,140			2200.2	1.2606	
4	610	2,070	4,760			1999.7	1.2795	
6	580	1,770	4,100	6,370		1751.7	1.1953	
8	560	1,370	2,900	4,400	5,950	1414.4	1.0306	
10	440	1,200	2,600	4,030	5,450	1203	1.0924	
15	370	840	1,660	2,540	3,390	871.57	0.969	

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



**Closure Cost Estimate
Productivity**

Productivity - Articulated Trucks (cont.)

740 Articulated Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	600	2,340	5,500				2190.6	1.3823
4	500	1,390	3,190	4,960	6,780		1415	1.1389
6	420	1,020	2,200	3,400	4,580	5,700	1066.4	1.0438
8	350	800	1,650	2,560	3,400	4,300	842.87	1.0012
10	290	640	1,350	2,040	2,750	3,410	686.02	0.9889
15	200	450	940	1,400	1,830	2,340	474.86	0.9789

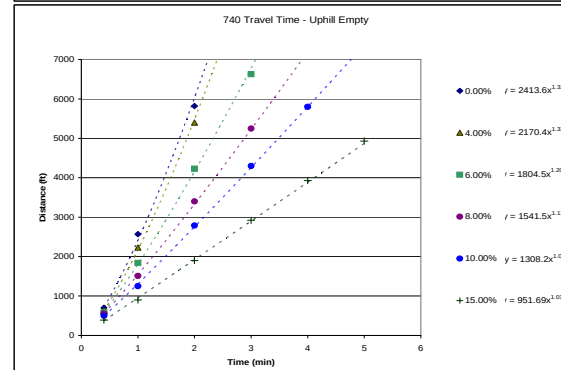
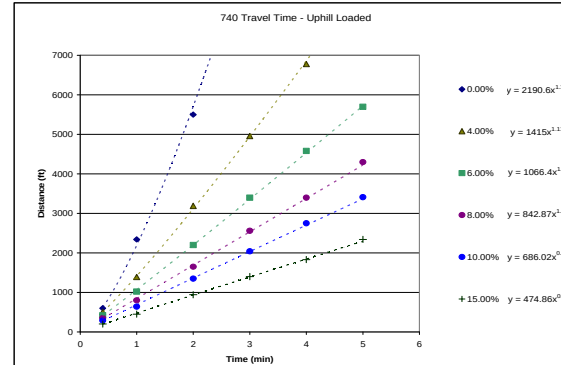
$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35

740 Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	700	2,570	5,820				2413.6	1.3214
4	630	2,230	5,400				2170.4	1.3372
6	590	1,940	4,230	6,630			1804.5	1.2048
8	560	1,510	3,400	5,250	7,120		1541.5	1.1112
10	500	1,250	2,790	4,300	5,800		1308.2	1.074
15	390	900	1,900	2,920	3,930	4,930	951.69	1.0146

$$\text{Travel Time (min)} = \sqrt[p]{\frac{\text{distance}}{k}}$$

Source: Caterpillar Performance Handbook Edition 35



Closure Cost Estimate
Productivity

Productivity - Wheel Loaders

Wheel Loader Specifications														
Description	924G	928G	950G	966G	972G	972G (2)	980G	986G	986G(2)	990	992G	992G(2)	994D	L2350
Payload Capacity (cy)														
Struck	2.2	2.5	3.46	4.46	4.71	4.71	6.34	6.9	6.9	9.5	13.2	13.2	18	
Heaped	2.7	3.25	4	5.25	5.5	5.5	7.25	8.33	8.33	11.25	16	16	22.5	
Average	2.45	2.875	3.73	4.855	5.105	5.105	6.795	7.615	7.615	10.375	14.6	14.6	20.25	53
Matched Truck	N/A	N/A	N/A	725	730	735	N/A	740	769D	773D	777D	785C	793C	797B
Average Cycle Time (min)	0.45	0.45	0.5	0.5	0.5	0.5	0.55	0.55	0.55	0.55	0.6	0.6	0.6	0.75
Passes to Fill Truck	N/A	N/A	N/A	3	4	5	N/A	4	3	4	5	6	7	5
Altitude Deration Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Operator Efficiency	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	N/A	N/A	N/A	1.5	2	2.5	N/A	2.2	1.65	2.2	3	3.6	4.2	3.75
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Loader matched to small truck fleet
Loader matched to medium truck fleet
Loader matched to large truck fleet
Loader matched to extra large truck fleet

**A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered
992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; LeTourneau/actual Chilean mine operating data for L2350.

Wheeled Loaders	General Purpose	Spade Nose-Rock
928G	3.25 cubic yard	not available
966G	5.0 cubic yard	not available
972G	5.5 cubic yard	not available
986G	not available	8.3 cubic yard
992G	not available	16.0 cubic yard

note: capacities are 2:1 heaped, SAE standards
NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECs & available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, ie., shot, loose, tight bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific bucket requirements. (Cashman Equipment, Elko, Nevada - February 21, 2005)

Productivity - Shovels

Shovel Specifications (Komatsu equivalent)					
Description	PC2000	PC3000	PC4000	PC5500	PC8000
Payload Capacity (cy)					
Struck	10.46	18.84	26.16	33.48	47.09
Heaped	14.39	25.9	35.97	46.04	64.75
Average	12.43	22.37	31.07	39.76	55.92
Matched Truck	740	777D	785C	793C	797B
Average Cycle Time (min)	0.49	0.49	0.59	0.59	0.69
Passes to Fill Truck	2.05	2.84	3.38	4.59	5.11
Altitude Deration Factor	1	1	0.9	1	1
Operator Efficiency	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	1.68	2.33	3.32	4.61	5.96
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5

Shovel matched to small truck fleet
Shovel matched to medium truck fleet
Shovel matched to large truck fleet
Shovel matched to extra large truck fleet

**A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered
992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; Komatsu actual Peruvian mine (Lagunas Norte) operating data for PC4000.

Productivity - Motor Graders

Motor Grader Specifications				
Description	120H	140H	160H	24M
Grader Width (ft)	8	9.25	10.08	14.04
Blade Width (ft)	12	14	16	16
Ripper Width (7 shanks) (ft)	7.6	8.5	9.75	12.83
Road Maintenance Speed (mph)				
Minimum	3	3	3	3
Maximum	9.5	9.5	9.5	9.5
Average	6.25	6.25	6.25	6.25
Hourly Production	33,000	33,000	33,000	33,000
Ripping Speed (mph)	1	1	1	1
Minimum	0	0	0	0
Maximum	3	3	3	3
Average	1.5	1.5	1.5	1.5
Altitude Deration Factor	1	1	1	1

Closure Cost Estimate
Productivity

Hourly Production (with job efficiency correction & altitude deration factors) (excluding maneuver time)	6,574	6,574	6,574	6,574
Maneuver time per pass (min)	0.5	0.5	0.5	0.5
Operator Efficiency	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83
Source: Caterpillar Performance Handbook Edition 35				

Closure Cost Estimate
Productivity

Productivity - Excavators

Track Excavator Specifications							
Description	312C	320C	325C	330C	345B	365BL	385BL
Bucket Capacity (cy)	0.68	1.57	2.22	2.22	3	4.6	7.3
Fill Factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Average Bucket Load (cy)	0.612	1.413	1.998	1.998	2.7	4.14	6.57
Soil Type	packed earth	hard clay	hard clay	hard clay	hard clay	hard clay	hard clay
Job Condition	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard
Cycle Times (minutes) - based on hard clay							
Load Bucket	0.07	0.09	0.09	0.09	0.13	0.1	0.19
Swing Loaded	0.06	0.06	0.06	0.07	0.07	0.09	0.06
Dump Bucket	0.03	0.03	0.04	0.04	0.02	0.04	0.03
Swing Empty	0.05	0.05	0.06	0.07	0.06	0.07	0.07
Total Cycle Time	0.21	0.23	0.25	0.27	0.28	0.3	0.35
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Operator Efficiency	1	1	1	1	1	1	1
Altitude Deration Factor	1	1	1	1	1	1	1
Corrected Productivity (LCY/hr)	145	306	398	369	480	687	935
Exploration Road Cycle Time ¹ (min)	N/A	0.38	0.4	N/A	0.42	N/A	N/A
Exploration Road Corr Prod (LCY/hr)	N/A	185	249	N/A	320	N/A	N/A
Track Width (ft)	8.17	9.17	9.83	10.5	11.42	11.5	11.5
Ditch/Trench Excavation							
Bucket Capacity (cy)	0.42	0.58	0.88	0.89	2.09	3.27	2.75
Fill Factor	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Corrected Productivity (LCY/hr)	50	63	88	82	186	271	196

Source: Caterpillar Performance Handbook Edition 35

Track Excavators	Hvy Duty Rock	Extreme Service Exc (e.g. haulroad recontour)	Hvy Duty Trench
312C	30", 0.68 cubic yd	47", 0.94 cubic yd	22", .42 cubic yd
320C	30", 0.90 cubic yd	55.1", 1.57 cubic yd	23.6", .58 cubic yd
325C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .88 cubic yd
330C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .89 cubic yd
345B	43.2", 1.69 cubic yd	65", 3.0 cubic yd	48", 2.09 cubic yd
365BL	60", 3.25 cubic yd	82", 4.6 cubic yd	59", 3.27 cubic yd
385BL	85", 6.30 cubic yd	96.0, 7.30 cubic yd	57", 2.75 cubic yd

Note: capacities are 2:1 heaped, SAE standards

NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECO &

available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, ie., shot, loose, tight bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific bucket requirements (Cashman Equipment, Elko, Nevada - February 21, 2005)

(1) Exploration cycle time assumes feathering/smoothing performed by excavator

Concrete Breaking Production

Track Excavator w/Hammer Specifications			
Description	325C	345B	385BL
Hydraulic Hammer	H120D s	H160D s	H180D s
Material	reinforced concrete		
Min Shift Production (yd3/8hr)	160	300	350
Max Shift Production (yd3/8hr)	300	850	1,550
Avg Shift Production (8hr)	230	575	950
Job Efficiency	0.83	0.83	0.83
Altitude Deration Factor	1	1	1

Source: Caterpillar Performance Handbook Edition 35

Closure Cost Estimate
Productivity

Drill Hole Plugging Productivity

Drill Hole Plugging Productivity		
Description	Drill Rig	Pump Rig
Move-to-hole, set-up, tear-down ⁽¹⁾	2	2
Trip in tremmie pipe ⁽¹⁾	500	
Pulling casing (threaded, not cemented)	200	
Single-pass perforating (water wells)	Productivity(all p	Passes
4	60	4
6	60	4
8	50	4
12	45	6
18	40	9
24	28	12
Perforation setup,trip in/out,tear-down	2	
Perforation tool cost (wear cost) ⁽¹⁾	2.5	
Inert Material Placement (backfill)		
Grouting/Cement ⁽¹⁾ (cy/hr)		5.33
Cuttings (see below) (cy/hr)		3.5
1. Drillers daily logs from Newmont, Barrick, New West Gold, Agnico Eagle, Idaho General Mines Inc.		
2. Drillers daily logs from Newmont, Barrick, Target Minerals		
3. Drillers daily logs from Newmont		
4. WDC Exploration, Dec 2005		
Source: WDC Exploration, Dec 2005		
Cuttings Placement Productivity		
Shift productivity (Means 02210-700-0120; Crew B11M)	28	cy / shift
Shift length	8	hours
Estimated Hourly Productivity	3.5	cy / hour

**Closure Cost Estimate
Productivity**

Altitude Deration Table

MODEL	Elevation											
	0-760 m (0-2500')		760-1500 m (2500-5000')		1500-2300 m (5000-7000')		2300-3000 m (7500-10,000')		3000-3800 m (10,000-12,000')		3800-4600 m (12,500-15,000')	
	CAT	User	CAT	User	CAT	User	CAT	User	CAT	User	CAT	User
Bulldozers												
D6R	100		100		100		100		92		84	
D6R w/ Winch	100		100		100		100		92		84	
D7R	100		100		100		100		100		96	
D8R	100		100		100		93		85		77	
D9R	100		100		100		93		85		77	
D10R	100		100		100		100		97		89	
D11R	100		100		100		93		85		77	
Wheeled Dozers												
824G	100		100		100		100		92		84	
834G	100		100		100		100		92		84	
844	100		100		100		100		100		96	
854G	100		100		100		93		85		77	
Graders												
120H	100		100		100		100		96		93	
14G/H	100		100		100		100		98		96	
16G/H	100		100		100		100		98		96	
24M	100		100		100		100		98		96	
Excavators												
312C	100		100		100		83		78		73	
320C	100		100		90		87		83		76	
325C	100		100		100		100		100		100	
330C	100		100		100		100		100		100	
345B	100		100		100		100		93		88	
365BL	100		100		100		86		86		86	
385BL	100		100		100		93		85		78	
Scrapers												
631G	100		100		100		100		97		90	
637G	100		100		100		95		87		80	
Loaders												
924G	100		100		100		100		97		89	
929G	100		100		100		100		92		85	
950G	100		100		100		100		100		100	
966G	100		100		100		100		96		88	
972G	100		100		92		84		77		70	
980G	100		100		100		100		96		88	
988G	100		100		100		95		85		75	
990	100		100		100		100		92		85	
992G	100		100		100		100		93		87	
994D	100		100		100		100		96		88	
L2350	100		100		100		100		96		90	
Shovels												
PC2000	100		100		100		100		96		90	
PC3000	100		100		100		100		96		90	
PC4000	100		100		100		100		96		90	
PC5500	100		100		100		100		96		90	
PC8000	100		100		100		100		96		90	
Other Equipment												
420D 4WD Backhoe	99		97		95		91		91		91	
428D 4WD Backhoe	99		97		95		91		91		91	
CS533E Vibratory Roller	100		100		98		95		91		86	
CS633E Vibratory Roller	100		100		100		100		91		86	
CP633E Sheepfoot Compactor	100		100		98		95		91		100	
CP833E Sheepfoot Compactor	100		100		100		100		91		86	
Light Truck - 1.5 Ton												
Supervisor's Truck												
Flatbed Truck												
Air Compressor + tools												
Welding Equipment												
Heavy Duty Drill Rig												
Pump (plugging) Drill Rig												
Concrete Pump												
Gas Engine Vibrator												
Generator 5KW												
HDEP Welder (pipe or liner)												
5 Ton Crane												
20 Ton Crane												
50 Ton Crane												
120 Ton Crane												
Trucks												
725	100		100		100		100		100		95	
730	100		100		100		100		100		95	
735	100		100		100		100		99		91	
740	100		100		100		100		99		91	
769D	100		100		100		93		88		82	
773E	100		100		100		100		93		85	
777D	100		100		100		100		93		87	
785C	100		100		100		93		86		80	
793C	100		100		100		100		100		93	
797B	100		100		100		100		100		93	
613E (5,000 gal) Water Wagon	100		100		100		100		95		87	
621E (8,000 gal) Water Wagon	100		100		100		100		97		90	
777D Water Truck	100		100		100		100		93		87	
785C Water Truck	100		100		100		93		86		80	
Dump Truck (10-12 yd ³) (5)												

Notes:

Closure Cost Estimate
Productivity

User entered deration value will override values from CAT Performance Handbook, except L2350 Loader: data from actual mine performance in Chile.
Komatsu altitude deration assumed from LeTourneau L2350

STANDARDIZED RECLAMATION COST ESTIMATOR

User Tools

Version 1.4.1

These tools allow easy access to some useful VBA routines and macros that are include in this Model Version

Keyboard Shortcuts	
SHORTCUT KEYS	ACTION
<i>Ctrl-Shift-C</i>	<i>Go to Table of Contents</i>
<i>Ctrl-Shift-O</i>	<i>Open Toe Offset Calculator</i>
<i>Ctrl-Shift-P</i>	<i>Go to Property Information Sheet</i>
<i>Ctrl-Shift-S</i>	<i>Show Slope Conversion Table</i>
<i>Ctrl-Shift-T</i>	<i>Go to Tools sheet</i>
<i>Ctrl-Shift-Z</i>	<i>Paste Formulas - First Use Ctrl-C to copy a range, then use the mouse (or keyboard) to select the paste range and then use this shortcut to paste formulas only from the copy range to the paste range. Equivalent to the Paste Special/Formulas command.</i>

**Closure Cost Estimate
Seed Mixture**

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Seed Mixture						
Common Name	Scientific Name	Species Number or Seeds / lb	Species % in Mix	PLS/acre	Cost/Lb	Cost/Acre
Grasses						
Forbs						
Shrubs						
Total				\$0.00		\$0.00

Source:

Notes:

Closure Cost Estimate
User 1

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 1 -

SRCE Model Cost Summary \$151,267,866

Lime application assumptions	Amount/Rate	Remarks
RS Means Reference	299,336	
		610,000 tons divided by 365,000 cy as per Site E material relocation exercise
Shortlag density (t/cy):	1.67	
Shortlag Total (tons)	499,892	
Application rate of lime to shortlag (t/cy)	0.01	
Lime required (tons)	4,999	
Density lime:	1.7	
Cost of lime (\$/lb):	0.114	
Cost of lime (\$/ton):	228	
Annual months of operation	5.5	
# days a year of operation	168	

hours per month	486
months per year	5.5
hours per year	2,673

Anchorage CPI 2019 1st half	228.858	
Anchorage CPI 2014 1st half	214.777	
Anchorage CPI 2008 1st half	187.659	
Inflation rate factor 2008 based costs	1.2195	
Inflation rate factor 2014 based costs	1.0656	
Average of inflation factors	3.82%	
Anchorage CPI rate factor (2019 through 2025)	1.1910	**Row 37 is the current inflation rate utilized. Rows 31-35 are historical to show progression.

	Rental (\$/mo)	Hourly (\$/hr)	Indirects	Total Hourly (\$/hr)
Lowboy trailer	6,840.35	14.07	7.5	21.57
Gradall	6,254.04	12.87	15.5	28.37

\$127,284,204.00

Pyritic Rock Removal Requirements			
Site	PAG cy total	Distance to tailings	Distance to UG
5.0 mile A Road	1,000	5.48	
3.9 mile A Road	15,000	4.38	
3.2 mile A Road	600	3.68	
0.9 mile A Road	1,500	1.38	
1.8 mile B Road	5,000	0.8	
2.5 mile B Road	60,000	1.5	
Zinc Ck Bridge	5,000	3.2	
Pit 174	4,000	2.3	
7.3 mile B Road	500	6.3	
1350 Road	8,000	8	
Core Shed	2,000	1	
Truck Pad	30,000	1	
Con Storage	10,000	1	
Tributary Creek (removed with S3P1)	-	0	
Site E	40,000	3.6	
Pit 405	20,000	6.6	
D Pile	120,000	7	0.63
Pond 23 Bedding	6,000	7	
Site C	50,000		0.36
Mill Backslope	25,000		0.18
Mill/Admin Fill	100,000		0.18
Ore Pad	18,000		0.18
Warehouse Pad	13,000		0.18
Water Building	3,500		0.18
Mine Portal	4,000		0.13
960 Site	100		0.13
1350 Site	10,000		0.77
Site 23	1,449,725	7	

See Haul Materials sheet for estimate details.
Distances from User 15.

Site	PAG cy total	Shortlag %	Shortlag cy
5.0 mile A Road	1,000	100	1,000
3.9 mile A Road	15,000	75	11,250
3.2 mile A Road	600	100	600
0.9 mile A Road	1,500	100	1,500
1.8 mile B Road	5,000	80	4,000
2.5 mile B Road	60,000	100	60,000
Zinc Ck Bridge	5,000	100	5,000
Pit 174	4,000	80	3,200
7.3 mile B Road	500	50	250
1350 Road	8,000	40	3,200
Core Shed	2,000	30	600
Truck Pad	30,000	20	6,000
Con Storage	10,000	50	5,000
Tributary Creek (removed with S3P1)	-	100	-
Site E	40,000	10	4,000
Pit 405	20,000	20	4,000
D Pile	120,000	20	24,000
Pond 23 Bedding	6,000	75	4,500
Site C	50,000	20	10,000
Mill Backslope	25,000	75	18,750
Mill/Admin Fill	100,000	25	25,000
Ore Pad	18,000	80	14,400
Warehouse Pad	13,000	75	9,750
Water Building	3,500	50	1,750
Mine Portal	4,000	100	4,000
960 Site	100	100	100
1350 Site	10,000	50	5,000
Site 23	1,449,725	5	72,486

See Haul Materials sheet for estimate details.

User Sheet 1 -

Dozer (D6)	77.48
Dozer operator	84.83
UG Truck(s) \$/hr	301.70
UG truck Operator(s) \$/hr	162.20
UG Fleet \$/hr	626.21

UG Equipment	Monthly rental	gal/hr	hourly rental	\$ fuel/hr	\$/hr maint.	hourly rental w/ fuel	operator (\$/hr)	total rental rate
MT436B - \$31,500 (7.3 gallons per hour)	39,976.12	7.3	82.26	27.594	41	150.85	81.1	231.95
MT436B - \$31,500 (7.3 gallons per hour)	39,976.12	7.3	82.26	27.594	41	150.85	81.1	231.95
Dozer D6						77.48	84.83	162.31
Loader 966 (operated by operators of other equipment)			34.77	55.9361111		90.71	0	90.71

Assumptions:	
Capacity of underground truck: 32 metric tons.	32.00
Capacity of underground truck: 19.2 m3.	19.16
Capacity of underground truck: 25 cy.	25.06
Conversion from m3 to cy: 1.308 cy.	1.31
Default # of underground trucks: 2.	2.00
Number of underground fleets: 1.	1.00
Surface loader: 966.	966.00
Surface loader cycle time: 0.5 minutes.	0.50
Surface truck bucket capacity: 4.	4.00
Passes to fill truck: 7.	7.00
Number of minutes for truck driver to load himself: 4.	4.00
Number of months in year: 5.5.	5.50

UNDERGROUND HAULAGE

Site	Truck cycle time (hrs)	Total amt. (cy)	# loads (trips)	Truck Hrs per site	Fleet hours per site	Mo. per site
All building debris to UG	0.42	31,010	1238	257.92	128.96	0.27
Material from Site C	0.42	50,000	1996	415.83	207.92	0.43
Material from Mill Backslope	0.42	25,000	998	207.92	103.96	0.21
Material from Mill/Admin Fill	0.42	100,000	3991	831.46	415.73	0.86
Material from Ore Pad	0.42	18,000	719	149.79	74.90	0.15
Material from Warehouse Pad	0.42	13,000	519	108.13	54.06	0.11
Material from Water Building	0.42	3,500	140	29.17	14.58	0.03
Material from Mine Portal	0.42	4,000	160	33.33	16.67	0.03
Material from 960 Site	0.42	100	4	0.83	0.42	0.00
Material from 1350 Site	0.42	10,000	400	83.33	41.67	0.09
Material - Guardrails	0.42	-	419	87.29	43.65	0.09
Total		254,610		2,205.00	1,102.50	2.27

Notes:
Assume truck driver loads truck and stacks load underground. Loader hours equal to total hours divided by the fleet quantity.
Underground haul distance is an average estimated haul distance.
Guardrail is assuming to be 150 ft in bed. See User Sheet 9 for surface costs

Site	Labor sum (\$)	Surface loader hrs	Surface loader cost (\$)	Equip. sum (\$)	Cost per site
All building debris to UG	84,101.36	258	13,585.30	111,381.83	195,483.19
Material from Site C	135,594.77	416	21,903.28	179,578.45	315,173.22
Material from Mill Backslope	67,797.38	208	10,951.64	89,789.23	157,586.61
Material from Mill/Admin Fill	271,121.60	831	43,795.59	359,066.94	630,188.54
Material from Ore Pad	48,844.01	150	7,890.01	64,687.83	113,531.84
Material from Warehouse Pad	35,257.36	108	5,695.29	46,694.00	81,951.35
Material from Water Building	9,510.66	29	1,536.30	12,595.68	22,106.34
Material from Mine Portal	10,869.32	33	1,755.77	14,395.07	25,264.39
Material from 960 Site	271.73	1	43.89	359.88	631.61
Material from 1350 Site	27,173.30	83	4,389.43	35,987.67	63,160.97
Material - Guardrails	28,464.03	87	4,597.93	37,697.08	66,161.11
Total	719,005.52	2,205	116144.4459	952,233.64	1,671,239.16

<--Other User item #11

Closure Cost Estimate User 2

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 2 -

SRCE Model Cost Summary \$151,267,866

[illegible]

Closure Cost Estimate User 2

E. Monitoring															
Other User Costs (from Other User sheet)															
Post-closure cover maintenance - Tailings (User Crew 2)					D6R; 330C; CP533E Sheepsfoot Compactor			x	x	x	x	x			
F. Construction Management & Support															
Road Maintenance	Small grader				Small water truck										
Other User Costs (from Other User sheet)															
Small crossings over Zinc and Greens Creek bridge locations (User 10) (Crew C-12)					12-ton crane			x							

Rate to ship from Seattle to HGCMC	
Per 100 lb	\$ 9.60

Provided by HGCMC via email 23 December 2024

	Weight (lb)	Mob	Demob	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year (...)	Year 99	Year 100
Bulldozers												
D6R	45,000	4,321	4,321	8,642	1	1	1	1	1			
D6R w/ Winch	48,000	4,609	4,609	9,218								
D7R	68,500	6,578	6,578	13,155								
D8R	85,000	8,162	8,162	16,324	1	1	1					
D9R	108,000	10,371	10,371	20,741								
Motor Graders												
120H	31,000	2,977	2,977	5,954								
14G/H	47,000	4,513	4,513	9,026								
16G/H												
24M												
Track Excavators												
312C	29,000	2,785	2,785	5,569								
320C	46,500	4,465	4,465	8,930								
325C	65,000	6,242	6,242	12,483								1
330C	80,000	7,682	7,682	15,364	1	1	1	2	1			
345B	100,000	9,603	9,603	19,205	1	1	1					
365BL	155,000	14,884	14,884	29,768	1							
Scrapers												
631G												
637G PP												
Wheeled Loaders												
924G	22,800	2,189	2,189	4,379								
928G	28,000	2,689	2,689	5,377	1	1						
950G	39,500	3,793	3,793	7,586								
966G	53,000	5,089	5,089	10,179								
972G	56,000	5,377	5,377	10,755								
980G	67,000	6,434	6,434	12,867								
988G	110,000	10,563	10,563	21,126								
988G												
992G												
Hydraulic Hammers												
H-120 (fits 325)	4,500	432	432	864								
H-160 (fits 345)	8,500	816	816	1,632								
H-180 (fits 365/385)	13,000	1,248	1,248	2,497								
Demolition Shears												
S340 (fits 322/325/330)	4,000	384	384	768				1				
S365 (fits 330/345)	7,500	720	720	1,440								
S390 (fits 365/385)	9,500	912	912	1,824								
Demolition Grapples												
G315 (fits 322/325)	3,500	336	336	672								
G320 (fits 325/330)	4,500	432	432	864								
G330 (fits 345/365)	8,000	768	768	1,536								
Other Equipment												
420D 4WD Backhoe	17,500	1,680	1,680	3,361	8		1					
428D 4WD Backhoe	18,000	1,728	1,728	3,457								
CS533E Vibratory Roller	25,000	2,401	2,401	4,801								
CS663E Vibratory Roller	41,000	3,937	3,937	7,874								
CP533E Sheepfoot												
Compactor	25,000	2,401	2,401	4,801	1	1	1	1	1			
Compactor	41,000	3,937	3,937	7,874								
Light Truck - 1.5 Ton												
Supervisor's Truck												
Flatbed Truck												

Closure Cost Estimate
User 2

Air Compressor + tools	1,300	125	125	250	1	1						1
Welding Equipment	19,500	1,872	1,872	3,745	8		1					
Heavy Duty Drill Rig												
Pump (plugging) Drill Rig	1,000	96	96	192	1							1
Concrete Pump												
Gas Engine Vibrator												
HDEP Welder (pipe or liner)												
Concrete mixer truck	24,200	2,324	2,324	4,648								
5 Ton Crane	25,000	2,401	2,401	4,801								
20 Ton Crane	38,500	3,697	3,697	7,394	1	1						1
50 Ton Crane	70,000	6,722	6,722	13,444								
120 Ton Crane	95,000	9,122	9,122	18,245	1							1
100 ton marine crane	90,000	8,642	8,642	17,285								
Trucks												
725 (articulated)	49,000	4,705	4,705	9,410								1
730 (articulated)	51,000	4,897	4,897	9,795								
735 (articulated)	70,000	6,722	6,722	13,444								
740 (articulated)	73,000	7,010	7,010	14,020	8	8	8	1				
769D												
613E (5,000 gal) Water Wagon (assume same as 725)				9,410	1	1	1					
621E (8,000 gal) Water Wagon (assume same as 725)				9,410								
Dump Truck (10-12 yd3) (5)	28,600	2,746	2,746	5,493	1	1	1					
Miscellaneous												
Lowboy trailer	55,000	5,281	5,281	10,563	1							
8000 lbs gradall	8,000	768	768	1,536	1							1
Track hoe (assume same as 725)				9,410	1							1
150 kW Generator												
Minetruck MT2010	60,000	5,762	5,762	11,523	2	2	2					
Minetruck MT436B	75,000	7,202	7,202	14,404								
Scooptram ST2G, ST2D	17,500	1,680	1,680	3,361								
Hydroseeder	5,000	480	480	960	1	1	1					1
Vacuum truck (assume same as small water truck)				9,410			1					
				Subtotal	\$ 354,985.22	\$ 228,424.27	\$231,919.58	\$ 58,959.35	\$28,807.50	\$ -	\$ -	\$59,881.19

<--Other
User item
#18
\$962,977.11

* Guardrail removal starting year 4 post material handling

Closure Cost Estimate
User 3

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 3 -

SRCE Model Cost Summary \$151,267,866

Source:
Marine Demo 2008.xls

Sites	Labor	Equipment	Material	Total
Hawk Inlet	89,062.85	125,940.36		215,003.21
Young Bay	41,945.05	42,866.96		84,812.01
Miscellaneous			221,139.21	221,139.21
Other - \$500,000 inflation adjusted	177,593.50	177,593.50	177,593.50	532,780.51
SUM	308,601.40	346,400.82	398,732.72	1,053,734.94
Note: Marine environment work includes equipment costs for unique water based demolition needs				

Labor	74.86
Marine demo worker	76.76

	2008 costs	2019 Inflation adjusted	2025 Inflation Adjusted
Mobilization	65000	79,270.22	94,410.83
Tug Rental	15000	18,293.13	21,787.11
Barge Rental	15000	18,293.13	21,787.11
Demobilization	40000	48,781.67	58,098.97
Slings/Cables/Misc	17250	21,037.10	25,055.18

	rate	operator	equip+operator
150 Ton Marine Crane*		1200.00	84.831284.83
345 Excavator		92.66	84.83177.49
50-Ton Crane		65.45	84.83150.28
Lowboy Trailer		21.57	82.73104.30
8,000lbs Gradall		28.37	84.83113.20

*150 Ton Marine Crane rental rate updated 8 April 2019 - Western Marine construction email

User Sheet 3 -

Task Cost Estimate	Element:	Site General			
	Area:	Marine Demo			
	Task:	Hawk Inlet			
	Subtask:				
Description:					
Salvage equipment at shiploader, freight barge and float plane dock					
Demolish structures, decontaminate and ship scrap metal					
Demolish foundations, removal of all piling, dolphins and support structures/walkways					
Maintain SEAPRO preparedness during closure					
Decontamination included in Site General - Hawk Inlet Demo					
Category	Unit Price	Number Required	Unit	Estimated Cost	Comments
Labor					
Labor	74.86	200	hr	14,972.00	
Marine demo worker	76.76	750	hr	57,570.00	
150 Ton Marine Crane* operator	84.83	100	hr	8,483.00	
345 Excavator operator	84.83	40	hr	3,393.20	
50-Ton Crane operator	84.83	20	hr	1,696.60	
Lowboy Trailer operator	82.73	10	hr	827.30	
8,000lbs Gradall operator	84.83	25	hr	2,120.75	
Labor Subtotal				89,062.85	
Equipment					
150 Ton Marine Crane*	1,200.00	100	hr	120,000.00	Barge included
345 Excavator	92.66	40	hr	3,706.40	
50-Ton Crane	65.45	20	hr	1,309.00	Shore based
Lowboy Trailer	21.57	10	hr	215.75	
8,000lbs Gradall	28.37	25	hr	709.21	
Equipment Subtotal				125,940.36	

<--Other User
item #8

User Sheet 3 -

Task Cost Estimate	Element:	Site General			
	Area:	Marine Demo			
	Task:	Young Bay			
	Subtask:				
Description:					
Salvage decking, breakwater barge, docking barge and misc equipment					
Pull pile and salvage, or cut at mudline (may not be able to pull out due to screw fin design on piling base)					
Due to shallow depth of beach, may have to utilize ground based equipment toward the shore					
Maintain SEAPRO preparedness at site until projects are complete.					
Category	Unit Price	Number Required	Unit	Estimated Cost	Comments
Labor					
Labor	74.86	100	hr	7,486.00	
Marine demo worker	76.76	300	hr	23,028.00	
150 Ton Marine Crane* operator	84.83	30	hr	2,544.90	
345 Excavator operator	84.83	50	hr	4,241.50	
50-Ton Crane operator	84.83	20	hr	1,696.60	
Lowboy Trailer operator	82.73	10	hr	827.30	
8,000lbs Gradall operator	84.83	25	hr	2,120.75	
Labor Subtotal				41,945.05	
Equipment					
150 Ton Marine Crane*	1,200.00	30	hr	36,000.00	Barge included
345 Excavator	92.66	50		4,633.00	
50-Ton Crane	65.45	20	hr	1,309.00	Shore based
Lowboy Trailer	21.57	10	hr	215.75	Shore based
8,000lbs Gradall	28.37	25	hr	709.21	Shore based
Equipment Subtotal				42,866.96	

User Sheet 3 -

Task Cost Estimate	Element:	Site General		
	Area:	Marine Demo		
	Task:	Miscellaneous Demo Equipment Costs		
	Subtask:			
Description:				
Due to specialty aspect of Marine based work, miscellaneous equipment costs are added to the overall estimates				
Mobilization/Demobilization of equipment				
Tugs rentals				
Lifting gear				
Salvage equipment				
Contractor Profits on services/equipment				
Category	Unit Price	Number Required	Unit	Estimated Cost
Materials				
Mobilization	94,410.83	1	lot	94,410.83
Tug Rental	21,787.11	1	lot	21,787.11
Barge Rental	21,787.11	1	lot	21,787.11
Demobilization	58,098.97	1	lot	58,098.97
Slings/Cables/Misc	25,055.18	1	lot	25,055.18
				221,139.21

Closure Cost Estimate
User 4

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 4 -

SRCE Model Cost Summary \$151,267,866

Area/Source	Active Production			
	Destination	Flow (gpm)	Head (ft)	Pipe Diameter (in)
Underground				
1350 Drain (el LIDAR 1300')	Main Sump	25	-350	4
Main Sump (el 950/890'?)	A Pond	75	-52	4
920 Area				
A Pond (el 900/838', crest 846)	Pond 7	448	-718	8
B Pond Sump (el 890/826')	A Pond	100	20	4
C Pond (el 850/796')	23 Pond	7	96	6
D Pond (el 810/752')	23 Pond PS	129	70	12
23 Pond (el 878/822')	23 Pond PS	138	0	8
23 Pond Pump Station (el 878/822')	Pond 7	558	-700	8
800' and 400 GPM WTPs (el 940/874+20' head)	Pond 7	500	-752	10
Greens Creek Pumps (el 915/852')	1160 Head Tank	500	296	8
Sewage Treatment (el 940/876'+10' head)	A Pond	5	-38	lined ditch
1160 Head Tank (1160/1128'+29' head)	Various 920	variable	-254	10
Hawk Inlet				
Canney Creek Potable (el 174')	Hawk Inlet Water Bldg	18	-54	6
Hawk Inlet Water Bldg (el 120')	Hawk Inlet Various	18	-90	4
Hawk Inlet Lift Station (el 18')	Sewage Treatment Plant	18	62	4
Sewage Treatment Plant (el 80')	DB-04	18	-56	4
Seeps (4) (el 18')	DB-04	1	20	2
DB-04 (el 24')	DB-04	2	15	6
Herman's Gulch Sump (el 24')	Pond 7 via west ditch	33	100	8
DB-04 (el 24')				
Tailings Area				
Canney Creek Withdrawal (el 174')	Truckwash	35	110	4
Truckwash (el 175')	Pond 7 via east ditch	35	-53	12
Pond 11 (el 180')	Pond 7 via west ditch	55	-64	18
Pond 10 (bottom el 120') including runoff	Pond 7	28	25	8
Pond 10 Underdrain Wet well 11 (el 115')	Pond 10	15	31	8
E. Upslope Infiltration (var 190')	Wet well 13	50	-66	
Wet well A (el 132')	Pond 7	146	8	8
Unlined area drains	various wet wells	19	various	
Above liner drains	various wet wells/ditches	14	various	
Below liner drains (excluding ponds)	various wet wells/ditches	30	various	
Area runoff (excluding Pond 7 and Pond 10)	Pond 7 via ditches	543	various	
Wet well 5 (170')	Pond 11	8	16	8
Wet well 3 (150')	Pond 7 via west ditch	2	10	6
Wet well 12 S3P1 above liner (110')	Pond 7 via east ditch	8	30	8
Wet well 13 S3P1 below liner (110')	Pond 7 via east ditch	70	30	8
Wet well 18 S3P1 top pumpback (113')	Pond 7 via east ditch	19	27	8
Pond 7 (bottom el 122') including runoff	TDF WTP	1406	48	12
Pond 7 Underdrain pumpback(el 110')	Pond 7	19	36	6
Pond 7/10 system below 110'				
Pond 7/10 system (160') below 110'				
TDF WTP (el 170')	APDES Outfall	1406	-170	14
APDES Outfall (el 0')	Hawk Inlet	1406	0	14

Notes:

Adding green components minus 4 GPM gives Pond 7 input through Year 3
Wet well 15 has 4 GPM included which is already in area runoff total
TBD = To be determined; N/A = Not applicable

Note: GC 920 as-built has elevations ~60 higher than LIDAR survey. Greens Creek elevation at GC bridge is 840' per LIDAR
Original flow data was from the December 2013 Stage 3 Phase 1 water balance. The values used in the model were vetted against the 2018 water balance and were shown to be more conservative.

HGCMC elected to keep the conservative values for the 2019 WMP renewal.
Flows updated in 2025 based on flow updated provided by KCB

User Sheet 4 -

Holding Year (Year 0)			
Destination	Flow (gpm)	Head (ft)	Pipe Diameter (in)
Main Sump	25	-350	4
A Pond	30	-52	4
Pond 7	448	-718	8
A Pond	100	20	4
23 Pond	7	96	6
23 Pond PS	129	70	12
23 Pond PS	138	0	8
Pond 7	558	-700	8
Pond 7	0	-752	10
1160 Head Tank	0	296	8
A Pond	0	-38	lined ditch
Various 920	0	-254	10
Hawk Inlet Water Bldg	1	-54	6
Hawk Inlet Various	1	-90	4
Sewage Treatment Plant	1	62	4
DB-04	1	-56	4
DB-04	1	20	2
DB-04	2	15	6
Pond 7 via west ditch	33	100	8
Truckwash	0	110	4
Pond 7 via east ditch	0	-53	12
Pond 7 via west ditch	55	-64	18
Pond 7	28	25	8
Pond 10	15	31	8
Wet well 13	50	-66	
Pond 7	146	8	8
various wet wells	19	various	
various wet wells/ditches	14	various	
various wet wells/ditches	30	various	
Pond 7 via ditches	543	various	
Pond 11	8	16	8
Pond 7 via west ditch	2	10	6
Pond 7 via east ditch	8	30	8
Pond 7 via east ditch	70	30	8
Pond 7 via east ditch	19	27	8
TDF WTP	809	48	12
Pond 7	19	36	6
APDES Outfall	809	-170	14
Hawk Inlet	809	0	14

Notes:

Remove 45 GPM mine operations water use
Remove 35 GPM wheel wash

User Sheet 4 -

Years 1-3			
Destination	Flow (gpm)	Head (ft)	Pipe Diameter (in)
Main Sump	25	-350	4
Mine flooding	30	variable	matrix
Pond 7	448	-718	8
A Pond	100	20	4
23 Pond	7	96	6
23 Pond PS	129	70	12
23 Pond PS	138	0	8
Pond 7	558	-700	8
Pond 7	0	-752	10
Underground	0	40	8
A Pond	0	-38	lined ditch
Various 920	0	-254	10
Hawk Inlet Water Bldg	5	-54	6
Hawk Inlet Various	5	-90	4
Sewage Treatment Plant	5	62	4
DB-04	1	-56	4
DB-04	1	20	2
DB-04	2	15	6
Pond 7 via west ditch	33	100	8
Truckwash	35	110	4
Pond 7 via east ditch	35	-53	12
Pond 7 via west ditch	55	-64	18
Pond 7	28	25	8
Pond 10	15	31	8
Wet well 13	50	-66	
Pond 7	146	8	8
various wet wells	19	various	
various wet wells/ditches	14	various	
various wet wells/ditches	30	various	
Pond 7 via ditches	543	various	
Pond 11	8	16	8
Pond 7 via west ditch	2	10	6
Pond 7 via east ditch	8	30	8
Pond 7 via east ditch	70	30	8
Pond 7 via east ditch	19	27	8
TDF WTP	818	48	12
Pond 7	19	36	6
APDES Outfall	818	-170	14
Hawk Inlet	818	0	14

Notes:

Add 35 GPM wheel wash back in
Add 4 GPM camp water back in

User Sheet 4 -

Years 4-10			
Destination	Flow (gpm)	Head (ft)	Pipe Diameter (in)
Mine flooding	25	variable	matrix
Mine flooding	5	variable	matrix
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
Pond 7	120	70	10
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
TDF WTP Batched	13	48	8
Wet well 13	50	-66	
Pond 7/10 system	146	-22	8
various wet wells	19	various	
various wet wells/ditches	14	various	
various wet wells/ditches	10	various	
Returned to native drainages	N/A	N/A	N/A
Returned to native drainages	N/A	N/A	N/A
Wet well A	2	-18	drain
Pond 7/10 system	8	-5	8
Returned to native drainages	N/A	N/A	N/A
Returned to native drainages	N/A	N/A	N/A
TDF WTP Batched	150	48	12
New storage pond (west)	19	-5	6
TDF WTP Batched	38	70	8
TDF WTP Batched	8	70	8
APDES Outfall Batched	209	-170	14
Hawk Inlet	209	0	14

Closure Cost Estimate
User 4

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 4 -
SRCE Model Cost Summary \$151,267,866

Notes:
Annual maintenance and supplies costs estimated as 4% of WTP capital costs for plant piping, equipment, electrical and instrumentation (0.04 x 1,572,229 = \$62,889) per Hecla December 2012. This values was inflation adjusted (March 2019) on 'Other Users' for the WMP renewal.
Water treatment plant power use is now based on hours of treatment rather than flow rate.

Consumables

Average treatment flow rates					1,261,440,000 Gal/yr.	105,120,000 Gal/mo.	2400 GPM	Note: GC recirculates/retreats a component of flow to maintain 2400 GPM treatment rate pulled from KCB estimates			
Chemical	Usage	Dose	Unit/gal				\$/Unit	Unit			\$/1000 gal
Floc	200 Gal/month	0.0000019	gal/gal				27.44 gal				0.05
Lime	6 Tons/month	0.0001142	lb./gal				0.23 lbs.				0.02625571
Ferric Chloride	1750 Gal/month	0.0000166	gal/gal				6.04 gal				0.10
										Reagent cost	0.18 per 1000 gal
											0.0002 per gal

Maintenance and supplies

4% of Pond 7 WTP capital costs for plant piping, equipment, electrical and instrumentation (0.04 x 1,572,229 x inflation adjustment)= \$xx,xxx)

91,345 \$/yr.

Water treatment plant power (WTP power demand x hrs of treatment x price per kWh)

WTP power dema 150 kW

Pumping power demand

Solution/Water Management - Water Treatment															
Time period	Years in period	Average flow rate	Yearly Quantity Treated	Total Quantity Treated	Reagent (consumables) Cost from unit consumption and cost data above	Reagent (consumables) Cost per year	Minimum Treatment campaigns	Planned Treatment campaigns	Treatment flow rate	Treatment Time	Extra Time	Total Campaign Hours	Total Hours Yearly	Total Days Yearly	Electrical Costs
		gpm	gallons	gallons	\$ / time period	\$ / year	batches / year	batches / year	gpm	hours / campaign	hours / campaign	hours / campaign	hours / year	days / year	\$/KWH
Year 0	1	809	425,210,400	425,210,400	\$ 76,106	\$ 76,106	21.07	26	2,000	136	24	168	4,368	182	0.15
Year 1	1	818	429,940,800	429,940,800	\$ 76,952	\$ 76,952	21.30	26	2,000	138	24	168	4,368	182	0.15
Year 2	1	818	429,940,800	429,940,800	\$ 76,952	\$ 76,952	21.30	26	2,000	138	24	168	4,368	182	0.15
Year 3	1	818	429,940,800	429,940,800	\$ 76,952	\$ 76,952	21.30	26	2,000	138	24	168	4,368	182	0.15
Years 4-10	7	209	109,850,400	768,952,800	\$ 137,630	\$ 19,661	5.44	6	2,000	153	72	216	1,296	54	0.15
Years 11-50	40	79	41,522,400	1,660,896,000	\$ 297,273	\$ 7,432	5.78	6	2,000	58	72	120	720	30	0.30
Years 51-100	50	109	57,290,400	2,864,520,000	\$ 512,701	\$ 10,254	7.97	8	2,000	60	72	120	960	40	0.30
Total Year 0-100				7,009,401,600	\$ 1,254,566	\$ 344,309									

Pond	Capacity			Slope		Height (ft)	Freeboard (ft)	Keyed	Quadratic			Pond Base ft x ft	acres	Pond Top		acres	Liner w/ Freeboard and Key					
	gallons	acre feet	cubic feet	H	V				c	b	a			Liner Keyed			Base ft*ft	Side ft*ft	Total ft*ft			
														ft x ft	ft*ft							
Pond 7	8,983,712	51.8	1,201,031	3	1	25	4	2	(129,724)	360	3	156	156	0.56	330	330	2.50	342	342	342	97,806	122,276
Pond 10	11,199,499	55.1	1,497,259	3	1	25	4	2	(165,271)	360	3	182	182	0.76	356	356	2.91	368	368	368	107,936	141,155
Total	20,183,211	106.9	2,698,290																			

Note: Pond 7 and Pond 10 individual storage volumes are not reported above the water level that inundates the flow control structure. A total of 106.8 ac-ft is identified for both but an estimate is currently used for the individual ponds.
Updated with Parapet wall increase in capacity

Green and bold cells in this table linked to Solution

Batches / Year
4

Closure Cost Estimate
User 4

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 4 -

Notes:
Annual maintenance and supplies costs estimated as 4% of WTP capital costs for plant piping, equipment, electrical and instrumentation (0.04 x 1,572,229 = \$62,889) per Hecla December 2012. This values was inflation adjusted (March 2019) on 'Other Users' for the WMP renewal.
Water treatment plant power use is now based on hours of treatment rather than flow rate

SRCE Model Cost Summary \$151,267,866

User Sheet 4 -					Gravity flow		NA
Ratio of pipe length to head:	5	Flow GPM	Length ft	Effective Head ft	Pipe Diameter in	Head ft	Remarks
Active Production - From 1350 Drain (el LIDAR 1300') to Main Sump	Contact Water	Active	25	1750	10	4	-350
Active Production - From Main Sump (el 950'/890'?) to A Pond	Contact Water	Active	75	260	10	4	-52
Active Production - From A Pond (el 900'/838', crest 846) to Pond 7	Contact Water	Active	448	3580	10	8	-716
Active Production - From B Pond Sump (el 890'/826') to A Pond	Contact Water	Active	100	100	20	4	20
Active Production - From C Pond (el 850'/796') to 23 Pond	Contact Water	Active	7	480	96	6	96
Active Production - From D Pond (el 810'/752') to 23 Pond PS	Contact Water	Active	129	350	70	12	70
Active Production - From 23 Pond (el 878'/822') to 23 Pond PS	Contact Water	Active	138	0	0	8	0
Active Production - From 23 Pond Pump Station (el 878'/822') to Pond 7	Contact Water	Active	558	3500	10	8	-700
Active Production - From 800' and 400 GPM WTPs (el 940'/874+2') to 23 Pond	Contact Water	Active	500	3760	10	10	-752
Active Production - From Greens Creek Pumps (el 915'/852') to 1160 Head Tank	Contact Water	Active	500	1480	296	8	296
Active Production - From Sewage Treatment (el 940'/876'+10' head) to 1160 Head Tank	Contact Water	Active	5	190	10	lined ditch	-38
Active Production - From 1160 Head Tank (1160'/1128'+20' head) to 1160 Head Tank	Contact Water	Active	variable	1270	10	10	-254
Active Production - From Cannery Creek Potable (el 174') to Hawk Inlet	Contact Water	Active	18	270	10	6	-54
Active Production - From Hawk Inlet Water Bldg (el 120') to Hawk Inlet	Contact Water	Active	18	450	10	4	-90
Active Production - From Hawk Inlet Lift Station (el 18') to Sewage Treatment Plant	Contact Water	Active	18	310	62	4	62
Active Production - From Sewage Treatment Plant (el 80') to DB-04	Contact Water	Active	18	280	10	4	-56
Active Production - From Seeps (4) (el 18') to DB-04	Contact Water	Active	1	100	20	2	20
Active Production - From Herman's Gulch Sump (el 24') to DB-04	Contact Water	Active	2	75	15	6	15
Active Production - From DB-04 (el' 24') to Pond 7 via west ditch	Contact Water	Active	33	800	160	8	160
Active Production - From Cannery Creek Withdrawal (el 174') to Trunk Line	Contact Water	Active	35	550	110	4	110
Active Production - From Truckwash (el 175') to Pond 7 via east ditch	Contact Water	Active	35	265	10	12	-53
Active Production - From Pond 11 (el. 180') to Pond 7 via west ditch	Contact Water	Active	55	320	10	18	-64
Active Production - From Pond 10 (bottom el 120') (including runoff to 1160 Head Tank)	Contact Water	Active	28	125	25	8	25
Active Production - From Pond 10 Underdrain Wet well 11 (el 115') to 1160 Head Tank	Contact Water	Active	15	155	31	8	31
Active Production - From E. Upslope Infiltration (var 190') to Wet well 11	Contact Water	Active	50	330	10	0	-66
Active Production - From Wet well A (el 132') to Pond 7	Contact Water	Active	146	40	8	8	8
Active Production - From Unlined area drains to various wet wells	Contact Water	Active	19	#VALUE!	various	0	various
Active Production - From Above liner drains to various wet wells/ditches	Contact Water	Active	14	#VALUE!	various	0	various
Active Production - From Below liner drains (excluding ponds) to various wet wells	Contact Water	Active	30	#VALUE!	various	0	various
Active Production - From Area runoff (excluding Pond 7 and Pond 10) to 1160 Head Tank	Contact Water	Active	543	#VALUE!	various	0	various
Active Production - From Wet well 5 (170') to Pond 11	Contact Water	Active	8	80	16	8	16
Active Production - From Wet well 3 (150') to Pond 7 via west ditch	Contact Water	Active	2	50	10	6	10
Active Production - From Wet well 12 S3P1 above liner (110') to Pond 7	Contact Water	Active	8	150	30	8	30
Active Production - From Wet well 13 S3P1 below liner (110') to Pond 7	Contact Water	Active	70	150	30	8	30
Active Production - From Wet well 15 S3P1 toe pumpback (113') to Pond 7	Contact Water	Active	19	135	27	8	27
Active Production - From Pond 7 (bottom el 122') including runoff to 1160 Head Tank	Contact Water	Active	1406	240	48	12	48
Active Production - From Pond 7 Underdrain pumpback(el 110') to 1160 Head Tank	Contact Water	Active	19	180	36	6	36
Active Production - From Pond 7/10 system below 110' to 1160 Head Tank	Contact Water	Active	0	0	0	0	0
Active Production - From Pond 7/10 system (TBD) below 110' to 1160 Head Tank	Contact Water	Active	0	0	0	0	0
Active Production - From TDF WTP (el 170') to APDES Outfall	Contact Water	Active	1406	850	10	14	-170
Active Production - From APDES Outfall (el 0') to Hawk Inlet	Contact Water	Active	1406	0	0	14	0
Holding Year (Year 0) - From 1350 Drain (el LIDAR 1300') to Main Sump	Contact Water	Active	25	1750	10	4	-350
Holding Year (Year 0) - From Main Sump (el 950'/890'?) to A Pond	Contact Water	Active	30	260	10	4	-52
Holding Year (Year 0) - From A Pond (el 900'/838', crest 846) to Pond 7	Contact Water	Active	448	3580	10	8	-716
Holding Year (Year 0) - From B Pond Sump (el 890'/826') to A Pond	Contact Water	Active	100	100	20	4	20
Holding Year (Year 0) - From C Pond (el 850'/796') to 23 Pond	Contact Water	Active	7	480	96	6	96
Holding Year (Year 0) - From D Pond (el 810'/752') to 23 Pond PS	Contact Water	Active	129	350	70	12	70
Holding Year (Year 0) - From 23 Pond (el 878'/822') to 23 Pond PS	Contact Water	Active	138	0	0	8	0
Holding Year (Year 0) - From 23 Pond Pump Station (el 878'/822') to Pond 7	Contact Water	Active	558	3500	10	8	-700
Holding Year (Year 0) - From 800' and 400 GPM WTPs (el 940'/874+2') to 23 Pond	Contact Water	Active	0	3760	10	10	-752
Holding Year (Year 0) - From Greens Creek Pumps (el 915'/852') to 1160 Head Tank	Contact Water	Active	0	1480	296	8	296
Holding Year (Year 0) - From Sewage Treatment (el 940'/876'+10' head) to 1160 Head Tank	Contact Water	Active	0	190	10	12	-38
Holding Year (Year 0) - From 1160 Head Tank (1160'/1128'+20' head) to 1160 Head Tank	Contact Water	Active	0	1270	10	10	-254
Holding Year (Year 0) - From Cannery Creek Potable (el 174') to Hawk Inlet	Contact Water	Active	1	270	10	6	-54
Holding Year (Year 0) - From Hawk Inlet Water Bldg (el 120') to Hawk Inlet	Contact Water	Active	1	450	10	4	-90
Holding Year (Year 0) - From Hawk Inlet Lift Station (el 18') to Sewage Treatment Plant	Contact Water	Active	1	310	62	4	62

Closure Cost Estimate User 4

Holding Year (Year 0) - From Sewage Treatment Plant (el 80') to DB-04	Contact Water	Active		1	280		10	4	-56
Holding Year (Year 0) - From Seeps (4) (el 18') to DB-04	Contact Water	Active		1	100		20	2	20
Holding Year (Year 0) - From Herman's Gulch Sump (el 24') to DB-04	Contact Water	Active		2	75		15	6	15
Holding Year (Year 0) - From DB-04 (el' 24') to Pond 7 via west ditch	Contact Water	Active		33	800		160	8	160
Holding Year (Year 0) - From Cannery Creek Withdrawal (el 174') to Truckwash (el 175') to Pond 7 via east ditch	Contact Water	Active		0	550		110	4	110
Holding Year (Year 0) - From Truckwash (el 175') to Pond 7 via east ditch	Contact Water	Active		0	265		10	12	-53
Holding Year (Year 0) - From Pond 11 (el. 180') to Pond 7 via west ditch	Contact Water	Active		55	320		10	18	-64
Holding Year (Year 0) - From Pond 10 (bottom el 120') (including runoff) to Pond 7	Contact Water	Active		28	125		25	8	25
Holding Year (Year 0) - From Pond 10 Underdrain Wet well 11 (el 115') to Pond 7	Contact Water	Active		15	155		31	8	31
Holding Year (Year 0) - From E. Upslope Infiltration (var 190') to Wet well 13	Contact Water	Active		50	330		10	0	-66
Holding Year (Year 0) - From Wet well A (el 132') to Pond 7	Contact Water	Active		146	40		8	8	8
Holding Year (Year 0) - From Unlined area drains to various wet wells/ditches	Contact Water	Active		19	#VALUE!	various		0	various
Holding Year (Year 0) - From Above liner drains to various wet wells/ditches	Contact Water	Active		14	#VALUE!	various		0	various
Holding Year (Year 0) - From Below liner drains (excluding ponds) to various wet wells/ditches	Contact Water	Active		30	#VALUE!	various		0	various
Holding Year (Year 0) - From Area runoff (excluding Pond 7 and Pond 10) to Pond 7	Contact Water	Active		543	#VALUE!	various		0	various
Holding Year (Year 0) - From Wet well 5 (170') to Pond 11	Contact Water	Active		8	80		16	8	16
Holding Year (Year 0) - From Wet well 3 (150') to Pond 7 via west ditch	Contact Water	Active		2	50		10	6	10
Holding Year (Year 0) - From Wet well 12 S3P1 above liner (110') to Pond 7 via west ditch	Contact Water	Active		8	150		30	8	30
Holding Year (Year 0) - From Wet well 13 S3P1 below liner (110') to Pond 7 via west ditch	Contact Water	Active		70	150		30	8	30
Holding Year (Year 0) - From Wet well 15 S3P1 toe pumpback (113') to Pond 7 via west ditch	Contact Water	Active		19	135		27	8	27
Holding Year (Year 0) - From Pond 7 (bottom el 122') including runoff to TDF WTP	Contact Water	Active		809	240		48	12	48
Holding Year (Year 0) - From Pond 7 Underdrain pumpback(el 110') to Pond 7	Contact Water	Active		19	180		36	6	36
Holding Year (Year 0) - From TDF WTP (el 170') to APDES Outfall	Contact Water	Active		809	850		10	14	-170
Holding Year (Year 0) - From APDES Outfall (el 0') to Hawk Inlet	Contact Water	Active		809	0		0	14	0
Years 1-3 - From 1350 Drain (el LIDAR 1300') to Main Sump	Contact Water	Active		25	1750		10	4	-350
Years 1-3 - From Main Sump (el 950/890'?) to Mine flooding	Contact Water	Active		30	#VALUE!	variable	matrix	variable	
Years 1-3 - From A Pond (el 900/838', crest 846) to Pond 7	Contact Water	Active		448	3580		10	8	-716
Years 1-3 - From B Pond Sump (el 890/826') to A Pond	Contact Water	Active		100	100		20	4	20
Years 1-3 - From C Pond (el 850/796') to 23 Pond	Contact Water	Active		7	480		96	6	96
Years 1-3 - From D Pond (el 810/752') to 23 Pond PS	Contact Water	Active		129	350		70	12	70
Years 1-3 - From 23 Pond (el 878/822') to 23 Pond PS	Contact Water	Active		138	0		0	8	0
Years 1-3 - From 23 Pond Pump Station (el 878/822') to Pond 7	Contact Water	Active		558	3500		10	8	-700
Years 1-3 - From Sewage Treatment (el 940/876'+10' head) to A Pond	Contact Water	Active		0	190		10	lined ditch	-38
Years 1-3 - From 1160 Head Tank (1160/1128'+20' head) to Various	Contact Water	Active		0	1270		10	10	-254
Years 1-3 - From Cannery Creek Potable (el 174') to Hawk Inlet Water Bldg (el 120') to Hawk Inlet Water Bldg	Contact Water	Active		5	270		10	6	-54
Years 1-3 - From Hawk Inlet Water Bldg (el 120') to Hawk Inlet Water Bldg	Contact Water	Active		5	450		10	4	-90
Years 1-3 - From Hawk Inlet Lift Station (el 18') to Sewage Treatment Plant (el 80') to DB-04	Contact Water	Active		5	310		62	4	62
Years 1-3 - From Sewage Treatment Plant (el 80') to DB-04	Contact Water	Active		1	280		10	4	-56
Years 1-3 - From Seeps (4) (el 18') to DB-04	Contact Water	Active		1	100		20	2	20
Years 1-3 - From Herman's Gulch Sump (el 24') to DB-04	Contact Water	Active		2	75		15	6	15
Years 1-3 - From DB-04 (el' 24') to Pond 7 via west ditch	Contact Water	Active		33	800		160	8	160
Years 1-3 - From Cannery Creek Withdrawal (el 174') to Truckwash (el 175') to Pond 7 via east ditch	Contact Water	Active		35	550		110	4	110
Years 1-3 - From Truckwash (el 175') to Pond 7 via east ditch	Contact Water	Active		35	265		10	12	-53
Years 1-3 - From Pond 11 (el. 180') to Pond 7 via west ditch	Contact Water	Active		55	320		10	18	-64
Years 1-3 - From Pond 10 (bottom el 120') (including runoff) to Pond 7	Contact Water	Active		28	125		25	8	25
Years 1-3 - From Pond 10 Underdrain Wet well 11 (el 115') to Pond 7	Contact Water	Active		15	155		31	8	31
Years 1-3 - From E. Upslope Infiltration (var 190') to Wet well 13	Contact Water	Active		50	330		10	0	-66
Years 1-3 - From Wet well A (el 132') to Pond 7	Contact Water	Active		146	40		8	8	8
Years 1-3 - From Unlined area drains to various wet wells	Contact Water	Active		19	#VALUE!	various		0	various
Years 1-3 - From Above liner drains to various wet wells/ditches	Contact Water	Active		14	#VALUE!	various		0	various
Years 1-3 - From Below liner drains (excluding ponds) to various wet wells/ditches	Contact Water	Active		30	#VALUE!	various		0	various
Years 1-3 - From Area runoff (excluding Pond 7 and Pond 10) to Pond 7	Contact Water	Active		543	#VALUE!	various		0	various
Years 1-3 - From Wet well 5 (170') to Pond 11	Contact Water	Active		8	80		16	8	16
Years 1-3 - From Wet well 3 (150') to Pond 7 via west ditch	Contact Water	Active		2	50		10	6	10
Years 1-3 - From Wet well 12 S3P1 above liner (110') to Pond 7 via west ditch	Contact Water	Active		8	150		30	8	30
Years 1-3 - From Wet well 13 S3P1 below liner (110') to Pond 7 via west ditch	Contact Water	Active		70	150		30	8	30
Years 1-3 - From Wet well 15 S3P1 toe pumpback (113') to Pond 7 via west ditch	Contact Water	Active		19	135		27	8	27
Years 1-3 - From Pond 7 (bottom el 122') including runoff to TDF WTP	Contact Water	Active		818	240		48	12	48
Years 1-3 - From Pond 7 Underdrain pumpback(el 110') to Pond 7	Contact Water	Active		19	180		36	6	36
Years 1-3 - From Pond 7/10 system below 110' to	Contact Water	Active		0	0		0	0	0
Years 1-3 - From Pond 7/10 system (TBD) below 110' to	Contact Water	Active		0	0		0	0	0
Years 1-3 - From TDF WTP (el 170') to APDES Outfall	Contact Water	Active		818	850		10	14	-170
Years 1-3 - From APDES Outfall (el 0') to Hawk Inlet	Contact Water	Active		818	0		0	14	0
Years 4-10 - From 1350 Drain (el LIDAR 1300') to Mine flooding	Contact Water	Active		25	#VALUE!	variable	matrix	variable	
Years 4-10 - From Main Sump (el 950/890'?) to Mine flooding	Contact Water	Active		5	#VALUE!	variable	matrix	variable	

Closure Cost Estimate User 4

[illegible]

Closure Cost Estimate
User 4

Year 11-50 - From Pond 7 Underdrain pumpback(el 110') to Pond 7	Contact Water	Active	19	25	10	6	-5	
Year 11-50 - From Pond 7/10 system below 110' to TDF WTP Batch Pond	Contact Water	Active	28	350	70	8	70	
Year 11-50 - From Pond 7/10 system (TBD) below 110' to TDF WTP Batch Pond	Contact Water	Active	8	350	70	8	70	
Year 11-50 - From TDF WTP (el 170') to APDES Outfall Batched Pond	Contact Water	Active	79	850	10	14	-170	
Year 11-50 - From APDES Outfall (el 0') to Hawk Inlet	Contact Water	Active	79	0	0	14	0	
Year 51-100 - From 1350 Drain (el LIDAR 1300') to Pond 7 via portal	Contact Water	Active	25	3840	10	4	-768	0
Year 51-100 - From Main Sump (el 950'/890'?) to Pond 7 via portal	Contact Water	Active	5	3840	10	4	-768	0

Closure Cost Estimate
User 5

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 5 -

SRCE Model Cost Summary \$151,267,866

Administrative Staff

Source: Administration Summary 2008 FINAL.xls

Years	# years	Staff days
Holding year	1	168
Year 1	1	168
Year 2	1	168
Year 3	1	168
Year 4-5	2	168
Year 6-14	9	
Year 15-32	18	
Year 33-50	18	
Year 51-100	50	

Air Transport Cost

Cost of helicopter	Cost	Unit	Comments
Bell 500	\$ 1,472.00	\$/hr	Assumes wet conditions
A Star B2	\$ 2,860.00	\$/hr	Assumes wet conditions
A Star B3	\$ 2,595.00	\$/hr	Assumes dry conditions (wet conditions approx 10x cost per hour)
Beaver Dh2	\$ 447.00	round trip	Freight only
Turbine for Beaver	\$ 900.00	round trip	Up to 5 pax
Otter	\$ 1,275.00	round trip	Up to 9 pax

12 May 2025 - HGCMC provided costs

Monthly Staff Transport for IMP and APDES Monitoring

Months	Staff transport	IMP frequency (see User 8)	APDES frequency (see User 8)
1	11	1	4
2	11	1	4
3	11	1	5
4	11	1	4
5	11	1	4
6		1	5
7		1	4
8		1	4
9		1	5
10		1	4
11		1	4
12		1	5
Note: Staff transport is twice a month		Total	97

Annual Staff Transport for IMP and APDES Monitoring

Years	# years	Staff transport	IMP frequency (see User 8)	APDES frequency (see User 8)	Batches / Year (See User 4)	Treatment days / year	Annual trips
Active period	1						
Holding Year	1	12	12	52	26		52
Y1	1	55	12	52	26		97
Y2	1	55	12	52	26		97
Y3	1	55	12	52	26		97
Y4	1	0	12	6	6	54	12
Y5	1	0	12	6	6	54	12
Y6-Y10	5	0	4	6	6	54	6
Y11-Y15	5	0	2	4	6	30	6
Y16-Y50	35	0	2	4	6	30	6
Y51-Y100	50	0	1	4	8	40	8
Note: Where there is no staff transport, the greatest of the frequencies of the other columns is assumed.							

Total # batch trips: 786

Landing craft for materials/equip \$/batch \$ 7,000.00 12 May 2025 - HGCMC Provided Costs \$ 5,502,000 <--G&A - Administration item #5
Meals for WTP, Monitoring, and Laborer crews \$/person/day \$ 118.00 Per diem rates for Juneau - lodging not included \$ 1,986,294 <--G&A - Administration item #6

Overall Transportation	# trips/year	Cost/trip	Cost per year	Total cost	Comments
Holding Year	52	\$ 900.00	\$ 46,800.00	\$ 46,800.00	Beaver
Y1	97	\$ 900.00	\$ 87,300.00	\$ 87,300.00	Beaver
Y2	97	\$ 900.00	\$ 87,300.00	\$ 87,300.00	Beaver
Y3	97	\$ 447.00	\$ 43,359.00	\$ 43,359.00	Ave. of passenger/passenger+equipment
Y4	12	\$ 2,166.00	\$ 25,992.00	\$ 25,992.00	Ave. of passenger/passenger+equipment
Y5	12	\$ 2,166.00	\$ 25,992.00	\$ 25,992.00	Ave. of passenger/passenger+equipment
Y6-Y10	6	\$ 2,166.00	\$ 12,996.00	\$ 64,980.00	Ave. of passenger/passenger+equipment
Y11-Y15	6	\$ 2,166.00	\$ 12,996.00	\$ 64,980.00	Ave. of passenger/passenger+equipment
Y16-Y50	6	\$ 2,166.00	\$ 12,996.00	\$ 454,860.00	Ave. of passenger/passenger+equipment
Y51-Y100	8	\$ 2,166.00	\$ 17,328.00	\$ 866,400.00	Ave. of passenger/passenger+equipment
TOTAL		\$	1,767,963.00	<--G&A - Administration item #4	

Staff Transport	# trips/year	Comments
Holding Year	12	
Y1	55	Beaver; 5 months, twice a month, 25 persons divided by 5 person plane capacity
Y2	55	Beaver; 5 months, twice a month, 25 persons divided by 5 person plane capacity
Y3	55	Beaver; 5 months, twice a month, 25 persons divided by 5 person plane capacity
Y4	0	
Y5	0	
Y11-Y15	0	
Y16-Y50	0	
Y51-Y100	0	

Outfall pipeline and facilities maintenance

Cost (2019)	Cost adjusted	Frequency (once per x years)	Total for 100 years
18,293	21,787	3	\$ 698,000

NOTE

\$15,000 adjusted for inflation and assumed to be repeated every three years over the course of the period

NOTES

1) Management support will be reduced after Year 3 (one year after cover installations)
Additional costs in subsequent years are for the continued use of the APDES 002 outfall line post closure (in perpetuity or as necessary).
The costs represent all aspects of maintaining the outfall pipeline and facilities and provide ample dollars for continued APDES sampling and marine sampling as necessary in conjunction with the line inspection/repair/cleaning on a 3 year schedule.

Ventilation						General						Yr-by-Yr		
Power:	kW	hrs/day	days/year	kWh	Cost	kW*	hrs/day	days/year	kWh	Cost		\$		
Holding		290	8	165	382,800	\$	117	24	365	1,028,205	\$	154,230.75	\$ 211,650.75	
Year 1		290	12	165	574,200	\$	117	24	365	1,028,205	\$	154,230.75	\$ 240,360.75	
Year 2							117	24	365	1,028,205	\$	154,230.75	\$ 154,230.75	
Year 3							117	24	365	1,028,205	\$	154,230.75	\$ 154,230.75	
					\$	143,550.00						\$	616,923.00	

^--G&A - Administration item #3

^--G&A - Administration item #2

Camp Support Costs

Pricing Bands		
MIN	MAX	\$ / person
5	5	\$392.88
6	10	\$331.13
11	15	\$218.95
16	20	\$167.10
21	25	\$139.25

Source: e-mail 6 January 2025 (ESS Worldwide)

Item	# of Personnel per day	Cost/(person×day)	Cost per year	Cost
Camp support - Hold	2	\$392.88	132,008	132,008
Camp support - Yea	25	\$139.25	584,850	584,850
Camp support - Yea	25	\$139.25	584,850	584,850
Camp support - Yea	25	\$139.25	584,850	584,850
				1,886,558

<--G&A - Administration item #1

Closure Cost Estimate
User 5

User Sheet 5 - - Schedule

		Δ	HY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17	Y18	Y19	Y20	Y21	Y22	Y23	Y24	Y25
Transportation																												
Staff, monitoring, WTP batch combined	\$	1,767,963	-	46,800	87,300	87,300	43,359	25,992	25,992	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	
Transportation total	\$	1,767,963	-	46,800	87,300	87,300	43,359	25,992	25,992	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	
Camp	\$	1,886,558	-	132,008	584,850	584,850	584,850																					
Landing craft for materials/equip trips				26	26	26	26	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Landing craft for materials/equip costs	\$	5,502,000	-	182,000	182,000	182,000	182,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	
Meals for WTP, Monitoring, and Laborer crews	\$	1,986,294	-	180,776	137,706	137,706	137,706	21,240	21,240	16,992	16,992	16,992	16,992	16,992	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	
Soltn Mgmt																												
Pumping	\$	428,424	(0)	27,588	28,872	28,872	28,872	5,196	5,196	5,196	5,196	5,196	5,196	5,196	2,230	2,230	2,230	2,230	2,230	2,230	2,230	2,230	2,230	2,230	2,230	2,230	2,230	
Landing craft for materials/equip	\$	5,502,000	-	182,000	182,000	182,000	182,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	
Meals for WTP crew	\$	1,986,294	-	180,776	137,706	137,706	137,706	21,240	21,240	16,992	16,992	16,992	16,992	16,992	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	
Subtotal landing aircraft and meals for WTP	\$	7,488,294	-	362,776	319,706	319,706	319,706	63,240	63,240	58,992	58,992	58,992	58,992	58,992	54,744	54,744	54,744	54,744	54,744	54,744	54,744	54,744	54,744	54,744	54,744	54,744	54,744	
Monitoring labor																												
Crew for monit sched A	\$	304,668		1	1	1	1	1	1																			
Crew for monit sched B	\$	35,154								1	1	1	1	1														
Crew for monit sched C	\$	35,154													1	1	1	1	1	1	1	1	1	1	1	1	1	

Camp+transportation (for schedule)	\$	3,654,520.68	-	178,808	672,150	672,150	628,209	25,992	25,992	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996	12,996
Power (for schedule)				211,651	240,361	154,231	154,231																				
Landing craft for materials/equip costs (for schedule)				182,000	182,000	182,000	182,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000
Meals for WTP, Monitoring, and Laborer crews				180,776	137,706	137,706	137,706	21,240	21,240	16,992	16,992	16,992	16,992	16,992	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744	12,744
Total (for schedule)				753,234	1,232,217	1,146,087	1,102,146	89,232	89,232	71,988	71,988	71,988	71,988	71,988	67,740	67,740	67,740	67,740	67,740	67,740	67,740	67,740	67,740	67,740	67,740	67,740	67,740

Persons / Crew	HY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17	Y18	Y19	Y20	Y21	Y22	Y23	Y24	Y25
Holding crew	2																									
Hourly - Tech 5		2	2	2																						
Laborer		1	1	1																						
WTP crew - foreman	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
WTP crew - laborer	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
Crew for monit sched A	2	2	2	2	2	2																				
Crew for monit sched B							2	2	2	2	2															
Crew for monit sched C												2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Days / Person	HY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17	Y18	Y19	Y20	Y21	Y22	Y23	Y24	Y25
Holding crew	365																									
Hourly - Tech 5		365	365	365																						
Laborer		365	365	365																						
WTP crew - foreman	365				54	54	54	54	54	54	54	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
WTP crew - laborer	365				54	54	54	54	54	54	54	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Crew for monit sched A	36	36	36	36	36	36																				
Crew for monit sched B							18	18	18	18	18															
Crew for monit sched C												24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

		Rate	Hrs/Day
Assume field tech	1	87.89	12
Assume laborer	1	74.86	12
Assume # days for sampling, travel, reporting	3		
Total per monit. Campaign	\$	5,859.00	

Interval	Campaign/year	\$/year	Schedule
holding year	52	304,668	A
years 1 - 5	52	304,668	A
years 6 - 10	6	35,154	B
years 11-15	6	35,154	C
years 16 - 100	8	46,872	C

User 5

User Sheet 5 - - Schedule

[illegible]

Closure Cost Estimate User 5

User Sheet 5 - - Schedule

[illegible][illegible][illegible][illegible][illegible]

Closure Cost Estimate User 5

User Sheet 5 - - Schedule

[illegible]

Closure Cost Estimate
User 6

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 6 -

SRCE Model Cost Summary \$151,267,866

Building Demolition and Transportation									
#	Task	Crew	Hours	Labor Cost (\$/hr	Equipment Cost	Labor Cost (\$)	Equipment Cost	Material Cost (\$	Total Cost (\$)
1	Decontamination (User 14)					\$ 416,505.72	\$ 40,344.75	\$ -	\$ 456,850.47
2*	Remove all internal mill parts, cut into pieces for transport underground.	B-8	2,916	\$ 628.61	\$ 199.63	\$ 1,833,026.76	\$ 582,121.08		\$ 2,415,147.84
3	Building Demolition (from "Foundations & Buildings" sheet)					\$ -	\$ -	N/A	\$ -
4	Wall Demolition (from "Foundations & Buildings" sheet)					\$ -	\$ -	N/A	\$ -
5	Slab Demolition (from "Foundations & Buildings" sheet)					\$ -	\$ -	N/A	\$ -
6	Dry Mill Addition (from "Foundations & Buildings" sheet)					\$ -	\$ -	N/A	\$ -
Totals						\$ 2,249,532.48	\$ 622,465.83	\$ -	\$ 2,871,998.31

* Other User item #2 - Internal mill infrastructure demolition

NOTES:

Item 1: Decontamination in User Sheet 14.

Item 2: Two crews (B-8) for 3 months.

Item 3-6: Demolition costs are calculated in the Foundations and Buildings worksheet. May need to add additional hours to remove internal mill parts from Dry Addition.

Task Cost Estimate		Element:	Site General	
		Area:	Tailings Impoundment	
		Task:	Tailings Water Treatment Plant	
		Subtask:		
Description:		Number	Unit	Estimated
Category	Unit Price	Required		Cost
Labor				
Steel Worker		77	221 hr	16,964
Concrete Demo		455	16 hr	7,276
Labor Subtotal				24,240
Equipment and Operators				
120 ton crane		220	10 hr	2,197
Track Hoe		209	13 hr	2,712
Track Hoe W/ H		265	13 hr	3,441
Excavator		209	33 hr	6,883
8,000 lbs gradal		105	26 hr	2,733
Lowboy Trailer		96	5 hr	482
Equipment Subtotal				18,448

<--Other User item #15

<--Other User item #15

Closure Cost Estimate
User 7

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 7 -

SRCE Model Cost Summary \$151,267,866

Cover Materials	Inches	Remarks	Haul Distance	Remarks
Growth Layer	40	Sourced from onsite stockpiles and deficit from new quarry.	5,000	Quarry assumed 25,000 feet down A road
Drain layer	10	Gravel	5,280	Was 12,700 ft - but the deficit will need to be imported and hauled from the beach (5280 ft)
Compacted Till	24	From Site D and Site E	31,100	Average of distance from tails to Site E and Site D.
Capillary break	10	Screened waste rock from Site 23	500	

Material	Location	Volume soil (cy)
Till	0.9 mile A Road	4,458
Till	1.9 mile B Road	1,000
Peat/Organics	2.8 mile B Road	664
Till	3.2 mile B Road	5,300
Till	4.6 mile B Road	7,640
Mill Site	4.9 mile B Road	29,262
Till	5.8 mile B Road	1,165
Till	6.2 mile B Road	14,402
Till/Organics	6.3 mile B Road	672
Till/Organics	6.4 mile B Road	720
Till	7.2 mile B Road	3,810
Till	7.3 mile B Road	1,746
Till	7.5 mile B Road	647
Till	7.6 mile B Road	4,056
Till	Pit 405	10,895
Till	Pit 174	10,375
Till	Pit 6	18,418
Till/Organics	Site 23	5,000
Till	Tailings Pond 7	-
Till/Organics	Pit 7	164,389
Sand, Gravel, Peat	A Road Sand Pit	199,874
	Total	284,619

12 May 2025 Sand/Gravel/Peat not included in the total. HGCMC did not include the use of this material in this

Source: HGCMC Surface Operations Surveyor (Shelby Edwards, 7 March 2019). Updated 2025 volumes.

Used in estimating material deficit based on required amount and the available quantity herein. See Other User item #16

Closure Cost Estimate

User 8

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 8 -**SRCE Model Cost Summary \$151,267,866**

Underground Care and Maintenance	\$81,224.29
Suite Q	\$365.00
QA/QC	\$365.00
Stormwater - sites	\$194.64
APDES - discharge	\$368.20
Hawk Inlet seawater sampling	\$1,800.00
Hawk Inlet sediment and organism monitoring	\$37,100.00
Site-wide vegetation	\$12,075.00
Shipping	\$165.00
PSI Report	\$50,000.00
IMP Sulfate	\$12.98

Dam Stability Monitoring		
Inspection/hr		\$ 197.00
Hrs inspection and reporting		40
Cost inspection and reporting	\$	7,880.00
Helicopter	\$	1,472.00
Total per inspection	\$	9,352.00

Sample Suite		Site Number	Site Name	Total Samples	Cost / Sample	Cost	Subtotal	Check	Years																								
									0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
IMP sampling program:																																	
Suite Q		48	Greens Creek Upper		187	365	68,255		12	12	12	12	12	12	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1			
Suite Q		6	Greens Creek Middle		117	365	42,705		12	12	12	12	12	12	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1			
Suite Q		54	Greens Creek Lower 1		117	365	42,705		12	12	12	12	12	12	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1			
Suite Q		62	Greens Creek Lower 2		187	365	68,255		12	12	12	12	12	12	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1			
Suite Q		61	Greens Creek Flood Plain		117	365	42,705		12	12	12	12	12	12	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1			
Suite Q		49	Bruin Creek Lower		35	365	12,775		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		46	Bruin Creek Upper		35	365	12,775		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		56	Site 23 Downgradient*		14	365	5,110		4	2	2	2	2	2	2		1	1	1	1	1	1	1	1	1								
Suite Q		57	Site 23 Upgradient*		14	365	5,110		4	2	2	2	2	2	2																		
Suite Q		13	1350 East		14	365	5,110		4	2	2	2	2	2	2																		
Suite Q		9	Tributary Creek Lower		119	365	43,435		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		27	Tailings Downgradient South Shallow		119	365	43,435		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		29	Tailings Downgradient West Shallow		119	365	43,435		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		32	Tailings Downgradient West Shallow 2		119	365	43,435		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		609	Further Creek Lower		119	365	43,435		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		60	Tailings Stormwater Pond Downgradient 1		119	365	43,435		4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		711	Greens Creek Above Site E		23	365	8,395		2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		712	Greens Creek Below Site E		23	365	8,395		2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Suite Q		New Site xx	Mine Drainage		187	365	68,255		12	12	12	12	12	12	4	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1		
Suite Q		New Site xx	Tailings Drainage		187	365	68,255		12	12	12	12	12	12	4	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1		
Suite Q		New Site xx	Site 23 Drainage		94	365	34,310		12	12	12	12	12	12	4	4	4	4	4	4	4												
IMP Sulfate			Add to Suite Q		2,065	13	26,804		144	138	138	138	138	138	138	42	42	42	42	42	42	24	24	24	20	20	13	13	17	13	13		
QA/QC			QA/QC SUBTOTAL		1,122	365	409,530		72	72	72	72	72	72	72	24	24	24	24	24	24	12	12	12	12	12	6	6	6	6	6		
* Average of quarterly sampling in first three years through the five-year period. Site 23 will have been removed by end of Year 3.																																	
Section subtotals							1,190,059	0	80,709	78,441	78,441	78,441	78,441	78,441	78,441	24,635	24,635	24,635	24,635	24,635	13,452	13,452	13,452	11,940	11,940	7,104	7,104	8,616	7,104	7,104			
APDES permit related sampling:																																	
APDES - discharge			002 outfall discharge		610	368	224,602		52	52	52	52	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4	4			
Stormwater			Stormwater Sites (10 sites)		120	195	23,357		20	20	20	20	20	20																			
Marine			Marine water column sampling		431	1,800	775,800		16	16	16	16	16	16	8	8	8	8	8	8	8	8	8	8	8	8	3	3	3	3			
Sediment and organism			Hawk inlet sediment and organism		16	37,100	593,600		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
Section subtotals									1,617,359	0	88,939	88,939	88,939	88,939	72,002	72,002	53,709	53,709	53,709	53,709	53,709	52,973	52,973	52,973	52,973	52,973	6,873	6,873	6,873	6,873	6,873		
SHIPPING:									(max. of all frequencies)																								
			Yearly		6,309	165	1,040,985		429	417	417	417	371	371	123	123	123	123	123	123	73	73	73	65	65	39	39	47	39	39			
Section subtotals									1,040,985	0	70,785	68,805	68,805	68,805	61,215	61,215	20,295	20,295	20,295	20,295	20,295	20,295	12,045	12,045	12,045	10,725	10,725	6,435	6,435	7,755	6,435	6,435	
OTHER:																																	
			Site-wide vegetation and erosion inspections		16	12,075	193,200		1	2	2	2	2	2	2	1	1	1	1	1	1												
Section subtotals									193,200	-	12,075	24,150	24,150	24,150	24,150	24,150	12,075	12,075	12,075	12,075	12,075	-	-	-	-	-	-	-	-	-	-	-	-
Maintenance and Professional Services:																																	
			Underground care and maintenance		1	81,224	81,224		1																								
			Marine maintenance		185	1,800	333,000									1	1	1	1	1	1	2	2	2	2	2	2	2	2	2			
			Dam Stability Monitoring		29	9,352	271,208		1	1	1	1	1	1	1	1	1	1	1	1	1												
			PSI Report		22	50,000	1,100,000			1			1			1					1												
Section subtotals									1,785,432	0	90,576	59,352	9,352	9,352	59,352	9,352	11,152	61,152	11,152	11,152	61,152	3,600	3,600	3,600	3,600	62,952	3,600	3,600	3,600	3,600	3,600	62,952	
									343,085	319,687	269,687	269,687	295,160	245,160	121,866	171,866	121,866	171,866	121,866	171,866	82,069	82,069	82,069	79,237	138,589	24,012	24,012	26,843	24,012	83,364			
Post-closure cover maintenance - Tailings														218,926	218,926	218,926	218,926	218,926															
Outfall pipeline and facilities maintenance															21,813				21,813				21,813				21,813				21,813		
Section subtotals									1,792,629																								
Annual totals									343,085	319,687	269,687	269,687	514,086	485,899	340,792	390,792	362,605	121,866	171,866	103,882	82,069	82,069	101,050	138,589	24,012	45,824	26,843	24,012	105,176				

Closure Cost Estimate User 8

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 8

SRCE Model Cost Summary \$151,267,866

Underground Care and Maintenance	\$81,224.29
Suite Q	\$365.00
QA/QC	\$365.00
Stormwater - sites	\$194.64
APDES - discharge	\$368.20
Hawk Inlet seawater sampling	\$1,800.00
Hawk Inlet sediment and organism monitoring	\$37,100.00
Site-wide vegetation	\$12,075.00
Shipping	\$165.00
PSI Report	\$50,000.00
IMP Sulfate	\$12.98

Dam Stability Monitoring		
Inspection/hr		\$ 197.00
Hrs inspection and reporting		40
Cost inspection and reporting		\$ 7,880.00
Helicopter		\$ 1,472.00
Total per inspection		\$ 9,352.00

[illegible]

Closure Cost Estimate User 8

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 8 .

SRCE Model Cost Summary \$151,267,866

Underground Care and Maintenance	\$81,224.29
Suite Q	\$365.00
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Site-wide vegetation	\$12,075.00
Shipping	\$165.00
PSI Report	\$50,000.00
IMP Sulfate	\$12.98

Dam Stability Monitoring		
Inspection/hr		\$ 197.00
Hrs inspection and reporting		40
Cost inspection and reporting		\$ 7,880.00
Helicopter		\$ 1,472.00
Total per inspection		\$ 9,352.00

Sample Suite		Site Number	Site Name	Total Samples	Cost / Sample	Cost	Subtotal	Check	Years																									
									0	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60					
IMP sampling program:																																		
Suite Q		48	Greens Creek Upper	187	365	68,255			12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		6	Greens Creek Middle	117	365	42,705			12																									
Suite Q		54	Greens Creek Lower 1	117	365	42,705			12																									
Suite Q		62	Greens Creek Lower 2	187	365	68,255			12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		61	Greens Creek Flood Plain	117	365	42,705			12																									
Suite Q		49	Bruin Creek Lower	35	365	12,775			4																									
Suite Q		46	Bruin Creek Upper	35	365	12,775			4																									
Suite Q		56	Site 23 Downgradient*	14	365	5,110			4																									
Suite Q		57	Site 23 Upgradient*	14	365	5,110			4																									
Suite Q		13	1350 East	14	365	5,110			4																									
Suite Q		9	Tributary Creek Lower	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		27	Tailings Downgradient South Shallow	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		29	Talings Downgradient West Shallow	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		32	Tailings Downgradient West Shallow 2	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		609	Further Creek Lower	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		60	Tailings Stormwater Pond Downgradient 1	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q		711	Greens Creek Above Site E	23	365	8,395			2																									
Suite Q		712	Greens Creek Below Site E	23	365	8,395			2																									
Suite Q	New Site xx	Mine Drainage	187	365	68,255				12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q	New Site xx	Tailings Drainage	187	365	68,255				12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Suite Q	New Site xx	Site 23 Drainage	94	365	34,310				12																									
IMP Sulfate		Add to Suite Q	2,065	13	26,804				144	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
QA/QC		QA/QC SUBTOTAL	1,122	365	409,530				72	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6						
* Average of quarterly sampling in first three years through the five-year period. Site 23 will have been removed by end of Year 3									80,709	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970						
APDES permit related sampling:																																		
APDES - discharge		002 outfall discharge	610	368	224,602				52	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
Stormwater		Stormwater Sites (10 sites)	120	195	23,357				20																									
Marine		Marine water column sampling	431	1,800	775,800				16	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
Sediment and organism		Hawk Inlet sediment and organism	16	37,100	593,600				1																									
Section subtotals									1,617,359	0	88,939	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873					
SHIPPING:																																		
(max. of all frequencies)																																		
		Yearly	6,309	165	1,040,985				429	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33							
Section subtotals									1,040,985	0	70,785	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445					
OTHER:																																		
		Site-wide vegetation and erosion inspections	16	12,075	193,200				1																									
Section subtotals									193,200	-	12,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Maintenance and Professional Services:																																		
		Underground care and maintenance	1	81,224	81,224				1																									
		Marine maintenance	185	1,800	333,000					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2							
		Dam Stability Monitoring	29	9,352	271,208				1					1					1								1							
		PSI Report	22	50,000	1,100,000									1					1								1							
Section subtotals									1,785,432	0	90,576	3,600	3,600	3,600	3,600	62,952	3,600	3,600	3,600	3,600	62,952	3,600	3,600	3,600	62,952	3,600	3,600	3,600	62,952					
									343,085	21,888	21,888	21,888	21,888	81,240	21,888	21,888	21,888	21,888	21,888	81,240	21,888	21,888	21,888	81,240	21,888	21,888	21,888	81,240						
Post-closure cover maintenance - Tailings																																		
Outfall pipeline and facilities maintenance																																		
Section subtotals									1,792,629																									
Annual totals									343,085	43,700	21,888	21,888	43,700	81,240	21,888	43,700	21,888	21,888	103,052	21,888	21,888	43,700	21,888	81,240	43,700	21,888	21,888	43,700	81,240					
MONITORING GRAND TOTAL									\$	7,619,664																								

Closure Cost Estimate User 8

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 8 .

SRCE Model Cost Summary \$151,267,866

Underground Care and Maintenance	\$81,224.29
Suite Q	\$365.00
QA/QC	\$365.00
Stormwater - sites	\$194.64
APDES - discharge	\$368.20
Hawk Inlet seawater sampling	\$1,800.00
Hawk Inlet sediment and organism monitoring	\$37,100.00
Site-wide vegetation	\$12,075.00
Shipping	\$165.00
PSI Report	\$50,000.00
IMP Sulfate	\$12.98

Dam Stability Monitoring		
Inspection/hr		\$ 197.00
Hrs inspection and reporting		40
Cost inspection and reporting	\$	7,880.00
Helicopter	\$	1,472.00
Total per inspection	\$	9,352.00

Sample Suite		Site Number	Site Name	Total Samples	Cost / Sample	Cost	Subtotal	Check	Years																												
									0	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80								
IMP sampling program:																																					
Suite Q		48	Greens Creek Upper	187	365	68,255			12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		6	Greens Creek Middle	117	365	42,705			12																												
Suite Q		54	Greens Creek Lower 1	117	365	42,705			12																												
Suite Q		62	Greens Creek Lower 2	187	365	68,255			12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		61	Greens Creek Flood Plain	117	365	42,705			12																												
Suite Q		49	Bruin Creek Lower	35	365	12,775			4																												
Suite Q		46	Bruin Creek Upper	35	365	12,775			4																												
Suite Q		56	Site 23 Downgradient*	14	365	5,110			4																												
Suite Q		57	Site 23 Upgradient*	14	365	5,110			4																												
Suite Q		13	1350 East	14	365	5,110			4																												
Suite Q		9	Tributary Creek Lower	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		27	Tailings Downgradient South Shallow	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		29	Talings Downgradient West Shallow	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		32	Tailings Downgradient West Shallow 2	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		609	Further Creek Lower	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		60	Tailings Stormwater Pond Downgradient 1	119	365	43,435			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q		711	Greens Creek Above Site E	23	365	8,395			2																												
Suite Q		712	Greens Creek Below Site E	23	365	8,395			2																												
Suite Q	New Site xx	Mine Drainage	187	365	68,255				12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q	New Site xx	Tailings Drainage	187	365	68,255				12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Suite Q	New Site xx	Site 23 Drainage	94	365	34,310				12																												
IMP Sulfate		Add to Suite Q	2,065	13	26,804				144	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10									
QA/QC		QA/QC SUBTOTAL	1,122	365	409,530				72	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6									
* Average of quarterly sampling in first three years through the five-year period. Site 23 will have been removed by end of Year 3									80,709	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970	5,970									
APDES permit related sampling:																																					
APDES - discharge		002 outfall discharge	610	368	224,602				52	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4									
Stormwater		Stormwater Sites (10 sites)	120	195	23,357				20																												
Marine		Marine water column sampling	431	1,800	775,800				16	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3										
Sediment and organism		Hawk Inlet sediment and organism	16	37,100	593,600				1																												
Section subtotals									1,617,359	0																											
									88,939	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873	6,873									
SHIPPING:																																					
(max. of all frequencies)																																					
		Yearly	6,309	165	1,040,985				429	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33										
Section subtotals									1,040,985	0																											
									70,785	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445	5,445										
OTHER:																																					
		Site-wide vegetation and erosion inspections	16	12,075	193,200				1																												
Section subtotals									193,200	-																											
									12,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Maintenance and Professional Services:																																					
		Underground care and maintenance	1	81,224	81,224				1																												
		Marine maintenance	185	1,800	333,000					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2										
		Dam Stability Monitoring	29	9,352	271,208				1					1					1								1										
		PSI Report	22	50,000	1,100,000									1					1								1										
Section subtotals									1,785,432	0																											
									90,576	3,600	3,600	3,600	3,600	62,952	3,600	3,600	3,600	3,600	62,952	3,600	3,600	3,600	3,600	62,952	3,600	3,600	3,600	62,952									
									343,085	21,888	21,888	21,888	21,888	103,240	21,888	21,888	21,888	21,888	81,240	21,888	21,888	21,888	21,888	81,240	21,888	21,888	21,888	21,888									
Post-closure cover maintenance - Tailings																																					
Outfall pipeline and facilities maintenance											21,813			21,813			21,813		21,813		21,813		21,813		21,813			21,813									
Section subtotals									1,792,629																												
Annual totals									343,085	21,888	43,700	21,888	21,888	103,052	21,888	21,888	43,700	21,888	81,240	43,700	21,888	21,888	43,700	81,240	21,888	43,700	21,888	21,888	103,052								
MONITORING GRAND TOTAL									\$	7,619,664																											

Closure Cost Estimate User 8

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 8 .

SRCE Model Cost Summary \$151,267,866

Underground Care and Maintenance	\$81,224.29
Suite Q	\$365.00
QA/QC	\$365.00
Stormwater - sites	\$194.64
APDES - discharge	\$368.20
Hawk Inlet seawater sampling	\$1,800.00
Hawk Inlet sediment and organism monitoring	\$37,100.00
Site-wide vegetation	\$12,075.00
Shipping	\$165.00
PSI Report	\$50,000.00
IMP Sulfate	\$12.98

Dam Stability Monitoring		
Inspection/hr		\$ 197.00
Hrs inspection and reporting		40
Cost inspection and reporting		\$ 7,880.00
Helicopter		\$ 1,472.00
Total per inspection		\$ 9,352.00

[illegible][illegible][illegible][illegible][illegible][illegible]

MONITORING GRAND TOTAL	\$ 7,619,664

Closure Cost Estimate
User 9

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Guard rail removal	
Total Cost	
Labor	\$ 594,071.84
Equipment	\$ 274,648.17

Equipment	
Excavator 330C rate \$/hr	\$ 58.77
	\$ 110,798.14
Articulating Haul Truck	86.91
	\$ 163,850.03

Notes:
Mob/demob added to User 2 Year 4
Includes articulating haul truck for disposal to portal
Underground haulage added to underground haulage sheet User 1

Measurement name	Template name	Created date	Length of Guardrail (ft)
6.5 DISTANCE		24-Feb-26	1522.8
1.3 DISTANCE		24-Feb-26	1116.8
-2.5 DISTANCE		25-Feb-26	120.6
1.9 DISTANCE		24-Feb-26	94.5
7.7 DISTANCE		24-Feb-26	377.8
4.8 DISTANCE		24-Feb-26	323.8
3.2 DISTANCE		24-Feb-26	382.8
-1.2 DISTANCE		25-Feb-26	288.5
5.6 DISTANCE		24-Feb-26	1926.8
7.9 DISTANCE		24-Feb-26	836.6
1 DISTANCE		25-Feb-26	829.4
7.6 DISTANCE		24-Feb-26	943.2
-3.1 DISTANCE		25-Feb-26	611.3
0.6 DISTANCE		25-Feb-26	602.1
6.1 DISTANCE		24-Feb-26	153.2
-2.2 DISTANCE		25-Feb-26	367.6
-4.2 DISTANCE		25-Feb-26	2290.9
2.8 DISTANCE		24-Feb-26	195.1
7.4 DISTANCE		24-Feb-26	678.2
1.3 DISTANCE		25-Feb-26	917.6
4.1 DISTANCE		24-Feb-26	3326.7
-3.8 DISTANCE		25-Feb-26	217.1
2 DISTANCE		24-Feb-26	409.9
1.3 DISTANCE		25-Feb-26	2380.3
0.7 DISTANCE		25-Feb-26	175.3
7.2 DISTANCE		24-Feb-26	3884.5
-0.8 DISTANCE		25-Feb-26	755.8
-0.4 DISTANCE		25-Feb-26	1565.2
0.6 DISTANCE		25-Feb-26	48.3
-2.2 DISTANCE		25-Feb-26	300.3
-4 DISTANCE		25-Feb-26	287.7
-2.5 DISTANCE		25-Feb-26	125
7.8 DISTANCE		24-Feb-26	108.9
2.8 DISTANCE		24-Feb-26	2193.3
2.4 DISTANCE		24-Feb-26	1875.5
0.9 DISTANCE		25-Feb-26	368.3
1.3 DISTANCE		25-Feb-26	440.5
-4 DISTANCE		25-Feb-26	344.6
3.1 DISTANCE		24-Feb-26	231.4
3.4 DISTANCE		24-Feb-26	826.7
3 DISTANCE		24-Feb-26	255.1
2.9 DISTANCE		24-Feb-26	478.5
5.3 DISTANCE		24-Feb-26	1737.8
-4.5 DISTANCE		25-Feb-26	1594.6
-2.4 DISTANCE		25-Feb-26	251.2
3.2 DISTANCE		24-Feb-26	496.8
4.2 DISTANCE		24-Feb-26	487.9
1.7 DISTANCE		24-Feb-26	94.5
-1.9 DISTANCE		25-Feb-26	113.2
-1.2 DISTANCE		25-Feb-26	990.8
3.3 DISTANCE		24-Feb-26	106.9
0.7 DISTANCE		25-Feb-26	51.5
4.7 DISTANCE		24-Feb-26	1815.7
-2.6 DISTANCE		25-Feb-26	2730.8
1.3 DISTANCE		25-Feb-26	2502.9
3.1 DISTANCE		24-Feb-26	244.5
-3.8 DISTANCE		25-Feb-26	238.8
7.7 DISTANCE		24-Feb-26	550
4.4 DISTANCE		24-Feb-26	711.6
6.1 DISTANCE		24-Feb-26	1063.7
-1.9 DISTANCE		25-Feb-26	127.4
-1.3 DISTANCE		25-Feb-26	2950.7
-1.9 DISTANCE		25-Feb-26	131.2
5.3 DISTANCE		24-Feb-26	76.6
1.8 DISTANCE		24-Feb-26	2064.1
-3.6 DISTANCE		25-Feb-26	852.1
4.9 DISTANCE		24-Feb-26	998.8
0 DISTANCE		25-Feb-26	88.9
3 DISTANCE		24-Feb-26	201.1
5.8 DISTANCE		24-Feb-26	1324.1
4.9 DISTANCE		24-Feb-26	332.4
1350			
0.7 DISTANCE		25-Feb-26	324
0.5 DISTANCE		25-Feb-26	388
0.2 DISTANCE		25-Feb-26	2021.7

Labor 100ft every 3 hours

Total Length ft	62842.8
Total 100ft Sections	628.428
Time for removal hours	1885.284
Time for removal days (11 hour shift)	171.3894545
Months	5.712981818

Labor rate \$/hr	\$ 76.76
Labor Cost (1)	\$ 144,714.40
Labor Cost (2)	\$ 289,428.80
Labor Rate \$/hr excavator	\$ 84.83
Labor cost excavator	\$ 159,928.64
Total Labor Cost	\$ 594,071.84

Closure Cost Estimate User 10

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 10 -

SRCE Model Cost Summary \$151,267,866

RS Means Reference	Crew	Daily Output	Labor-Hours/Unit	Unit	Material	Labor	Equipment
32 34 20.10 1700	C-12	153	0.31	S.F.	84.39	160.62	19.72

					Labor	Equipment
C-12	carpenter foreman	1	107.00	107.00		
	carpenters	3	82.31	246.93		
	laborer	1	74.86	74.86		
	crane operator	1	82.73	82.73		
	20 ton crane	1	62.81	62.81		
subtotal				574.33	511.52	62.81

Closure Cost Estimate User 11

Project Name: SRCE Update 2026 - Reclamation Plan
 Date of Submittal: March 2026
 File Name: HGCMC SRCE Model_Updated 202603.xlsm
 Model Version: Version 1.4.1
 Cost Data: User Data
 Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
 Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026
 User Sheet 11 -

SRCE Model Cost Summary \$151,267,866

For decontamination, see User Sheet 14
 Bridges were rehabilitated with no excess material for removal. All quantities stayed the same for 2025 update.

	Labor	Equipment	Total hourly
Steel Worker	75.51	-	76
120 Ton Crane	84.83	134.86	220
Track Hoe with Shear	84.83	200.51	285
Lowboy Trailer	82.73	21.57	104
8,000lbs gradall	84.83	28.37	113
345B Excavator	84.83	92.66	177
740 Articulating Truck	82.57	86.91	169

Summary	Labor	Equipment	Materials*	Subtotal
Zinc Creek Bridge - 3.0 Mile	57,813	32,487		90,300
Falls Creek Bridge - 3.4 Mile	18,257	10,202		28,459
Killer Creek Bridge- 7.4 Mile	26,739	12,661		39,400
Greens Creek Bridge	39,545	21,393		60,938
TOTAL	142,354	76,742		219,097

* included in User Sheet 14

[Linked to Other User item #6](#)

Sources: Bridges 2008.xls

Category	Unit Price	Zinc Creek Bridge - 3.0 Mile		Falls Creek Bridge - 3.4 Mile		Killer Creek Bridge- 7.4 Mile		Greens Creek Bridge	
		hours Required	Estimated Cost	hours Required	Estimated Cost	hours Required	Estimated Cost	hours Required	Estimated Cost
Labor									
Steel Worker	75.51	450	33,980	150	11,327	240	18,122	320	24,163
120 Ton Crane operator	84.83	90	7,635	25	2,121	35	2,969	60	5,090
Track Hoe with Shear operator	84.83	80	6,786	30	2,545	35	2,969	50	4,242
Lowboy Trailer operator	82.73	40	3,309	10	827	15	1,241	25	2,068
8,000lbs gradall operator	84.83	50	4,242	15	1,272	15	1,272	25	2,121
345B Excavator operator	84.83	20	1,697	0	-	0	-	20	1,697
740 Articulating Truck operator	82.57	2	165	2	165	2	165	2	165
Labor Subtotal			57,813		18,257		26,739		39,545
Equipment									
120 Ton Crane	134.86	90	12,137	25	3,372	35	4,720	60	8,092
Track Hoe with Shear	200.51	80	16,041	30	6,015	35	7,018	50	10,026
Lowboy Trailer	21.57480179	40	863	10	216	15	324	25	539
8,000lbs gradall	28.36838741	50	1,418	15	426	15	426	25	709
345B Excavator	92.66	20	1,853		-		-	20	1,853
740 Articulating Truck	86.91	2	174	2	174	2	174	2	174
Equipment Subtotal			32,487		10,202		12,661		21,393

Closure Cost Estimate

User 12

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 12 -

SRCE Model Cost Summary \$151,267,866

Surface disturbance areas	Area (acres)
920 mill and portal area	24
Waste rock site 23	20
Waste rock site D	8
Waste rock site 1350 and portal area	3.5
1350 road	4
1160 tank	1
960 waste rock area	1
Waste rock site C and 860 area	3
Waste rock site E	10
Tailings disposal facility	130
Hawk inlet and marine load out area	14.5
Young Bay Dock facility	1
Access A Road	24
Access B Road	42
Powerline right of way	32
Topsoil stockpiles and borrow sites	31
TOTAL	349

Source: HGCMC Surface Operations Surveyor - surface disturbance same except for TDF expansion

[Linked to Yards.](#)

Closure Cost Estimate

User 13

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Cost Estimate
User 14

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026
User Sheet 14 -

SRCE Model Cost Summary \$151,267,866 920 Area Removal including 1350

Labor total	Equipment	Materials	Total	<--Other User item #9
416,505.72	40,344.75		456,850.47	

Source:

Task		
Industrial Waste Disposal		146,409.41
Waste Material Disposal		17,647.56
Scrap Shipping and Specialty Equipment for cleanup		768,712.78
Radiation source disposal		1,307.23
SUM:		934,076.98

	2008 costs	2019 Adjusted/updated	2025 adjusted/updated	
Industrial Waste Disposal	5600	6,829.43	8,133.86	Containers
Waste Material Disposal	675	823.19	980.42	Adjusted for inflation
Shipping Scrap/Salvage Equip	75000	91,465.64	108,935.57	Adjusted for inflation
Mobilization/Demobe	2500	3,048.85	3,631.19	Adjusted for inflation
Vacuum truck/steam cleaner	6500	6,926.15	8,249.04	Quote February 04, 2014
Pickup transportation	1000	1,219.54	1,452.47	Adjusted for inflation
Extra shipping containers/flats	644	785.38	935.39	Adjusted for inflation
Radioactive waste disposal	450	548.79	653.61	Adjusted for inflation

Costs for Materials, Equipment	2008 costs	2019 Adjusted/updated	2025 adjusted/updated	
Prep of Demo Scrap	17.00	20.73	24.69	Adjusted for inflation
Prep of Re-Bar Scrap	17.00	20.73	24.69	Adjusted for inflation
Stock Piling Scrap	88.00	107.32	127.82	Adjusted for inflation
Loading of Scrap	305.00	371.96	443.00	Adjusted for inflation
Miscellaneous Demo	1,000.00	1,219.54	1,452.47	Adjusted for inflation
Pond cleaning equipment	12,000.00	14,634.50	17,429.69	Adjusted for inflation
Miscellaneous Materials	2,000.00	2,439.08	2,904.95	Adjusted for inflation
Concrete	205.00	250.01	297.76	Adjusted for inflation

Note:
Demolition included in Foundations and Buildings sheet
Salvage included in the User Sheet 6
Decontamination Crew (includes equipment - see 3 Clab - D)

483.24

Task Cost Estimate		Element:	Site General		
		Area:	Miscellaneous		
		Task:	Industrial Waste Disposal		
		Subtask:			
Category	Unit Price	Number Required	Unit	Estimated Cost	Comments
					Small monthly shipments
Industrial Waste Disposal	8,133.86	18	mo	146,409.41	Monthly shipments/small quantities

Task Cost Estimate		Element:	Site General		
		Area:	Miscellaneous		
		Task:	Waste Material Disposal		
		Subtask:			
Category	Unit Price	Number Required	Unit	Estimated Cost	Comments
Waste Material Disposal	980.42	18	mo	17,647.56	Small monthly shipments

Task Cost Estimate		Element:	Site General		
		Area:	Miscellaneous		
		Task:	Scrap Shipping and Specialty Equipment for cleanup		
		Subtask:			
Category	Unit Price	Number Required	Unit	Estimated Cost	Comments
Transportation					
Shipping Scrap/Salvage Equip	108935.57	5	per trip	544,677.87	3000-5000 tons per trip includes weight measurements for salvage equipment and scrap
Equipment rental					
Mobilization/Demobe	3631.19	1	per	3,631.19	For specialty equipment
Vacuum truck/steam cleaner	8249.04	12	per	98,988.49	Monthly rental
4 Pickup transportation	5809.90	18	per	104,578.15	4 pickups-lease
Extra shipping containers/flats	935.39	18	per	16,837.08	Demurrage or purchase

Task Cost Estimate		Element:	Site General		
		Area:	Miscellaneous		
		Task:	Radioactive source disposal		
		Subtask:			
Description:	Radioactive source disposal includes the removal and shipment off island of radioactive sources				
Category	Unit Price	Number Required	Unit	Estimated Cost	Comments
Radioactive waste disposal	653.61	2	units	1,307.2	
Source:	920 General Mill Area 2008.xls		There are only 2 Portable units left all of the Fixed units in the Mill have been disposed of. Confirmed P. Lillesve 2/25/26		

Closure Cost Estimate
User 14

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Sediment Basins DB01 and DB02 and Pond "A"	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	55	hr	26,578.20
Decon labor+equip subtotal				26,578.20
Equipment				
Pond cleaning equipment	17,429.69	1	lot	17,429.69
Equipment Subtotal				17,429.69

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Water Pump House	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	1.2	hr	579.89
Decon labor+equip subtotal				579.89

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	920 Warehouse, incl telecommunications	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	3.6	hr	1,739.66
Decon labor+equip subtotal				1,739.66

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Warehouse Sheds	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	0.8	hr	386.59
Decon labor+equip subtotal				386.59

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Coarse Ore Feeder	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decontamination Crew	483.24	4.4	hr	2,126.26
Decon labor+equip subtotal				2,126.26

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Re-Grind Building & Zinc Cleaner Expansion	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	30	hr	14,497.20
Decon labor+equip subtotal				14,497.20

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Back-Fill plant	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	6	hr	2,899.44
Decon labor+equip subtotal				2,899.44

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Tailings Loadout and Tailings Storage	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	30	hr	14,497.20
Decon labor+equip subtotal				14,497.20

Closure Cost Estimate
User 14

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Concentrator	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	235	hr	113,561.40
Decon labor+equip subtotal				113,561.40

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Concentrator	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	235	hr	113,561.40
Decon labor+equip subtotal				113,561.40

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Concentrate Loadout	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	10	hr	4,832.40
Decon labor+equip subtotal				4,832.40

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	800 GPM Water Treatment Plant @ 920	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	5	hr	2,416.20
Decon labor+equip subtotal				2,416.20

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	400 GPM Water Treatment Plant @ 920	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	3	hr	1,449.72
Decon labor+equip subtotal				1,449.72

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Power House	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	50	hr	24,162.00
Decon labor+equip subtotal				24,162.00

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Surface Shop and Admin Building	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	27	hr	13,047.48
Decon labor+equip subtotal				13,047.48

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Miscellaneous 920 Support Areas	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	5	hr	2,416.20
Decon labor+equip subtotal				2,416.20

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Surface Paving	
		Subtask:		
	Unit	Number		Estimated
Category	Price	Required	Unit	Cost
Decon labor+equip				
Decontamination Crew	483.24	11	hr	5,315.64
Decon labor+equip subtotal				5,315.64

Closure Cost Estimate
User 14

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	Assay Lab	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	10	hr	4,832.40
Decon labor+equip subtotal				4,832.40

Task Cost Estimate		Element:	Site General	
		Area:	920 General Mill Area	
		Task:	860 Safety Building	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	1.2	hr	579.89
Decon labor+equip subtotal				579.89

Task Cost Estimate		Element:	Site General	
		Area:	Bridges	
		Task:	Zinc Creek Bridge - 3.0 Mile	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	18	hr	8,698.32
Decon labor+equip subtotal				8,698.32

Task Cost Estimate		Element:	Site General	
		Area:	Bridges	
		Task:	Greens Creek Bridge	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	14	hr	6,765.36
Decon labor+equip subtotal				6,765.36

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Concentrate Storage Building	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	50	hr	24,162.00
Decon labor+equip subtotal				24,162.00

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Wheel Wash	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	4	hr	1,932.96
Decon labor+equip subtotal				1,932.96

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Degritting Basin DB04	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	2	hr	966.48
Decon labor+equip subtotal				966.48

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Generator Shack	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	4	hr	1,932.96
Decon labor+equip subtotal				1,932.96

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Warehouse	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	5.6	hr	2,706.14
Decon labor+equip subtotal				2,706.14

Closure Cost Estimate
User 14

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Services Building	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	4	hr	1,932.96
Decon labor+equip subtotal				1,932.96

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Fuel Tank Farm	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	40	hr	19,329.60
Decon labor+equip subtotal				19,329.60

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Water Tanks and Potable Building	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	2	hr	966.48

Task Cost Estimate		Element:	Site General	
		Area:	Hawk Inlet	
		Task:	Sewage Plant Area	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	6	hr	2,899.44
Decon labor+equip subtotal				2,899.44

Task Cost Estimate		Element:	Site General	
		Area:	Tailings Impoundment	
		Task:	Tank 7 (previsouly Tank 6)	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	6	hr	2,899.44
Decon labor+equip subtotal		161		2,899.44

Task Cost Estimate		Element:	Site General	
		Area:	Tailings Impoundment	
		Task:	Wheel Wash	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	2	hr	966.48
Decon labor+equip subtotal				966.48

Task Cost Estimate		Element:	Site General	
		Area:	Tailings Impoundment	
		Task:	Wet Well #1	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	0	hr	-
Decon labor+equip subtotal				-

Task Cost Estimate		Element:	Site General	
		Area:	Tailings Impoundment	
		Task:	Pond 23 Pump House	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	2	hr	966.48
Decon labor+equip subtotal				966.48

Task Cost Estimate		Element:	Site General	
		Area:	Tailings Impoundment	
		Task:	Tailings Water Treatment Plant	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Decon labor+equip				
Decontamination Crew	483.24	10	hr	4,832.40
Decon labor+equip subtotal				4,832.40

Task Cost Estimate		Element:	Site General	
		Area:	1350 Area	
		Task:	Remove 1160' Water Tank	
		Subtask:		
Category	Unit Price	Number Required	Unit	Estimated Cost
Labor				
Steel Demo Worker	84.83	8	hr	678.64
Laborer	74.86	50	hr	3,743.00
Labor Subtotal				4,421.64
Equipment				
50-Ton Crane	65.45	10	hr	654.50
Excavator	177.83	20	hr	3,556.60
8,000lbs gradall	28.37	5	hr	141.84
Flat bed	22.00	8	hr	176.00
Equipment Subtotal				4,528.94

Closure Cost Estimate

User 15

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 15 -

SRCE Model Cost Summary \$151,267,866

Site	To TDF	To UG
5.0 mile A Road	5.48	
3.9 mile A Road	4.38	
0.9 mile A Road	1.38	
Hawk Inlet	1	8.63
Tailings	0	7.63
1.8 mile B Road	0.8	6.83
2.5 mile B Road	1.5	6.13
3.2 mile A Road	3.68	
Zinc Ck Bridge	2	5.63
Pit 174	2.3	5.33
Site E	3.6	4.03
7.3 mile B Road	6.3	1.33
1350 Road	8	0.37
Pit 405	6.6	1.03
D Pile	7	0.63
Site 23	7	0.63
Site C	7.26	0.36
Mill	7.45	0.18
960 Site	7.75	0.13
1350 Site	8.40	0.77
920 Portal		.
1160 Site		

Mile Marker	Road
5.00	A
3.90	A
0.90	A
0.00	B
1.00	B
1.80	B
2.50	B
3.20	A
3.00	B
3.30	B
4.60	B
7.30	B
9.00	B
7.60	B
8.00	B
8.00	B
8.26	B
8.45	B
8.75	B
9.40	B
8.63	B
9.03	B

Closure Cost Estimate

User 16

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Cost Estimate

User 17

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Cost Estimate

User 18

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Cost Estimate

User 19

Project Name: SRCE Update 2026 - Reclamation Plan

Date of Submittal: March 2026

File Name: HGCMC SRCE Model_Updated 202603.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm

Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

Closure Cost Estimate
User 20

Project Name: SRCE Update 2026 - Reclamation Plan
Date of Submittal: March 2026
File Name: HGCMC SRCE Model_Updated 202603.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Cost Estimate Type: ARO Cost Basis: Greens Creek - March 2026

User Sheet 20 -

SRCE Model Cost Summary \$151,267,866

ROR 3.97%
Inflation 3.82% Anchorage CPI

Total SRCE Costs	\$	225,942,242
Reclamation (years 1-4)		
NPV Total	\$	89,945,411
1 year of inflation	\$	93,381,326
2 year of inflation	\$	96,948,493
3 year of inflation	\$	100,651,925
4 year of inflation	\$	104,496,829
5 year of inflation	\$	108,488,608
Water Treatment (5-200)		
NPV Total	\$	15,733,119
1 year of inflation	\$	16,334,124
2 year of inflation	\$	16,958,088
3 year of inflation	\$	17,605,887
4 year of inflation	\$	18,278,432
5 year of inflation	\$	18,976,668
Grand NPV Total		
Inflation Adjusted Total	\$	105,678,531
		127,465,276
Investment Growth		
Invested in year 2	\$	15,733,119
1 year of growth	\$	16,357,724
2 years of growth	\$	17,007,126
3 years of growth	\$	17,682,309
4 years of growth	\$	18,384,296

SUM of cells C30 and C22
SUM of cells C35 and C27

Reclamation Cost (1-200)	Notes:																		
		Calendar Year Reclamation year	2025 0	2026 1	2027 2	2028 3	2029 4	2030 5	2031 6	2032 7	2033 8	2034 9	2035 10	2036 11	2037 12	2038 13	2039 14		
			\$ 7,144,279	\$ 30,907,237	\$27,284,495	\$ 24,609,401	\$ 1,655,235	\$ 1,576,185	\$951,975	\$1,019,725	\$981,531	\$ 625,609	\$789,684	\$689,543	\$456,747	\$456,747	\$482,466		
		Calendar Year Reclamation year	2040 15	2041 16	2042 17	2043 18	2044 19	2045 20	2046 21	2047 22	2048 23	2049 24	2050 25	2051 26	2052 27	2053 28	2054 29		
			\$ 533,332	\$ 378,079	\$ 407,635	\$ 381,916	\$ 378,079	\$ 488,057	\$378,079	\$ 378,079	\$412,431	\$ 378,079	\$458,501	\$407,635	\$378,079	\$378,079	\$407,635		
		Calendar Year Reclamation year	2055 30	2056 31	2057 32	2058 33	2059 34	2060 35	2061 36	2062 37	2063 38	2064 39	2065 40	2066 41	2067 42	2068 43	2069 44		
			\$ 458,501	\$ 375,201	\$ 404,757	\$ 379,998	\$ 375,201	\$ 485,179	\$375,201	\$ 375,201	\$404,757	\$ 375,201	\$455,623	\$404,757	\$375,201	\$375,201	\$404,757		
		Calendar Year Reclamation year	2070 45	2071 46	2072 47	2073 48	2074 49	2075 50	2076 51	2077 52	2078 53	2079 54	2080 55	2081 56	2082 57	2083 58	2084 59		
			\$ 455,623	\$ 375,201	\$ 404,757	\$ 375,201	\$ 375,201	\$14,746,850	\$429,300	\$ 429,300	\$458,856	\$ 429,300	\$509,722	\$458,856	\$429,300	\$429,300	\$458,856		
		Calendar Year Reclamation year	2085 60	2086 61	2087 62	2088 63	2089 64	2090 65											
			\$ 509,722	\$ 429,300	\$ 458,856	\$ 429,300	\$ 429,300	\$ 539,278											
		Repeating 15 year cycle used for years past 100	Calendar Year Reclamation year	2091 66	2092 67	2093 68	2094 69	2095 70	2096 71	2097 72	2098 73	2099 74	2100 75	2101 76	2102 77	2103 78	2104 79	2105 80	
			\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278		
		Calendar Year Reclamation year	2106 81	2107 82	2108 83	2109 84	2110 85	2111 86	2112 87	2113 88	2114 89	2115 90	2116 91	2117 92	2118 93	2119 94	2120 95		
			\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278		
		Calendar Year Reclamation year	2121 96	2122 97	2123 98	2124 99													
			\$ 429,300	\$ 429,300	\$ 458,856	\$ 822,556													
		1st Cycle past year 100, though the cycle started in year 97. Replacement costs for the WTP, pond cleaning, and pond relining are included in the 2125 costs	Calendar Year Reclamation year					2125 100	2126 101	2127 102	2128 103	2129 104	2130 105	2131 106	2132 107	2133 108	2134 109	2135 110	
								71 \$14,748,543	72 \$ 458,856	73 \$429,300	74 \$ 429,300	75 \$458,856	76 \$ 509,722	77 \$429,300	78 \$458,856	79 \$429,300	80 \$429,300	81 \$539,278	
		2nd cycle past year 100	Calendar Year Reclamation year	2136 111	2137 112	2138 113	2139 114	2140 115	2141 116	2142 117	2143 118	2144 119	2145 120	2146 121	2147 122	2148 123	2149 124	2150 125	
			\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278		
		3rd cycle past year 100	Calendar Year Reclamation year	2151 126	2152 127	2153 128	2154 129	2155 130	2156 131	2157 132	2158 133	2159 134	2160 135	2161 136	2162 137	2163 138	2164 139	2165 140	
			\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278		
		4th cycle past year 100. Replacement costs for the WTP, pond cleaning, and pond relining are included in the 2175 costs	Calendar Year Reclamation year	2166 141	2167 142	2168 143	2169 144	2170 145	2171 146	2172 147	2173 148	2174 149	2175 150	2176 151	2177 152	2178 153	2179 154	2180 155	
			\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$14,748,543	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278		
	5th cycle past year 100	Calendar Year Reclamation year	2181 156	2182 157	2183 158	2184 159	2185 160	2186 161	2187 162	2188 163	2189 164	2190 165	2191 166	2192 167	2193 168	2194 169	2195 170		
		\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278			
	6th cycle past year 100	Calendar Year Reclamation year	2196 171	2197 172	2198 173	2199 174	2200 175	2201 176	2202 177	2203 178	2204 179	2205 180	2206 181	2207 182	2208 183	2209 184	2210 185		
		\$ 429,300	\$ 429,300	\$ 458,856	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$539,278			
	7th cycle past year 100	Calendar Year Reclamation year	2211 186	2212 187	2213 188	2214 189	2215 190	2216 191	2217 192	2218 193	2219 194	2220 195	2221 196	2222 197	2223 198	2224 199	2225 200		
		\$ 429,300	\$ 429,300	\$ 429,300	\$ 429,300	\$ 509,722	\$ 458,856	\$429,300	\$ 429,300	\$458,856	\$ 509,722	\$429,300	\$458,856	\$429,300	\$429,300	\$822,556			

Closure Cost Estimate User 20

[illegible]



**GPO Appendix 14
Attachment D
Standardized Reclamation
Cost Estimator Cost Data
File**

Format Version:	SRCE Data File v1.12
File Name:	HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Date:	March 4, 2026
Cost Type:	User Data
Author/Source:	Greens Creek

Units of Measure:	Imperial

No. of Bases/Regions:	8

Basis/Region	Basis/Region Name	Basis/Region Description
Basis 1	Greens Creek 2014	DB (AK) Sept. '12 for double shifts 8hrs/14days labor, week begins Wednesday, CMI equipment costs
Basis 2	do not use	notes
Basis 3	Greens Creek 2019 - April 2019	Pamphlet 600 - Issue 37, Effective September 1, 2018 - Davis Bacon for double shifts 8hrs/14days labor, week begins Wednesday. Equipment rental inflation adjusted from 2014 estimate. Cost(2019) = Cost(2014) * 1.0615 (Anchorage CPI 2014-2019)
Basis 4	do not use	
Basis 5	Greens Creek 2019 - November 2019	Equipment rental inflation adjusted from 2014 estimate. Cost(2019) = Cost(2014) * 1.0656 (Anchorage CPI 2014-2019)
Basis 6	do not use	
Basis 7	Greens Creek - March 2026	Equipment and labor rates updated based on HGCMC provided costs, Pamphlet 600 - Issue 51, Davis-Bacon Act WD # AK20260001, provided quotes, and RS Means Online when direct quotes unavailable. Equipment without direct costs utilized an inflation rate from the 2019 estimate. Cost(2025) = Cost (2019) * 1.191 (Anchorage CPI 2019-2025) inflation is through 2025.
Basis 8	do not use	
Basis 9		
Basis 10		
Basis 11		
Basis 12		
Basis 13		
Basis 14		
Basis 15		

Equipment Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated2026</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

Monthly Rental Basis (operating hrs/ period)	486		486		486

MONTHLY EQUIPMENT RATE TABLE [Cost Per Month] ⁽¹⁾

EQUIPMENT TYPE ⁽²⁾	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	<i>Greens Creek 2014</i>	<i>do not use</i>	<i>Greens Creek 2019 - April 2019</i>	<i>do not use</i>	<i>Greens Creek 2019 - November 2019</i>
Bulldozers					
D6R	\$17,647		\$18,733		\$18,805
D6R w/ Winch	\$21,177		\$22,479		\$22,566
D7R	\$25,589		\$27,162		\$27,267
D8R	\$29,118		\$30,909		\$31,028
D9R	\$35,295		\$37,465		\$37,610
D10R					
D11R					
Wheeled Dozers					
824G					
834G					
844					
854G					
Motor Graders					
120H	\$14,118		\$14,986		\$15,044
14G/H	\$24,706		\$26,226		\$26,327
16G/H	\$34,412		\$36,529		\$36,670
24M					
Track Excavators					
312C	\$8,471		\$8,992		\$9,026
320C	\$13,059		\$13,862		\$13,916
325C	\$15,000		\$15,923		\$15,984
330C	\$21,177		\$22,479		\$22,566
345B	\$24,706		\$26,226		\$26,327
365BL	\$40,589		\$43,085		\$43,251
385BL					
Scrapers					
631G					
637G PP					
Wheeled Loaders					
924G	\$6,530		\$6,931		\$6,958
928G	\$7,941		\$8,430		\$8,462
950G	\$13,236		\$14,049		\$14,104
966G	\$18,530		\$19,669		\$19,745
972G	\$21,177		\$22,479		\$22,566
980G	\$24,706		\$26,226		\$26,327

Equipment Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated2026</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

Monthly Rental Basis (operating hrs/ period)	486		486		486

988G	\$38,824		\$41,212		\$41,371
990	\$61,766		\$65,564		\$65,817
992G	\$114,708		\$121,762		\$122,232
994D					
L-2350					

Shovels

KOM PC2000					
KOM PC3000					
KOM PC4000					
KOM PC5500					
KOM PC8000					

Hydraulic Hammers

H-120 (fits 325)	\$15,000		\$15,923		\$15,984
H-160 (fits 345)	\$24,706		\$26,226		\$26,327
H-180 (fits 365/385)	\$30,883		\$32,782		\$32,909

Demolition Shears

S340 (fits 322/325/330)					
S365 (fits 330/345)					
S390 (fits 365/385)					

Demolition Grapples

G315 (fits 322/325)					
G320 (fits 325/330)					
G330 (fits 345/365)					

Other Equipment

420D 4WD Backhoe	\$4,765		\$5,058		\$5,077
428D 4WD Backhoe	\$5,824		\$6,182		\$6,206
CS533E Vibratory Roller	\$8,824		\$9,366		\$9,402
CS663E Vibratory Roller	\$13,236		\$14,049		\$14,104
CP533E Sheepsfoot Compactor	\$8,824		\$9,366		\$9,402
CP663E Sheepsfoot Compactor	\$132,355		\$140,495		\$141,037
Light Truck - 1.5 Ton	\$2,206		\$2,342		\$2,351
Supervisor's Truck	\$3,088		\$3,278		\$3,291
Flatbed Truck	\$3,088		\$3,278		\$3,291
Air Compressor + tools	\$1,500		\$1,592		\$1,598
Welding Equipment	\$794		\$843		\$846
Heavy Duty Drill Rig	\$30,000		\$31,845		\$31,968

Equipment Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated2026
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

Monthly Rental Basis (operating hrs/ period)	486		486		486

Pump (plugging) Drill Rig	\$1,324		\$1,405		\$1,410
Concrete Pump	\$5,735		\$6,088		\$6,112
Gas Engine Vibrator	\$1,103		\$1,171		\$1,175
Generator 5KW	\$670		\$711		\$713
HDEP Welder (pipe or liner)	\$2,647		\$2,810		\$2,821
5 Ton Crane	\$7,941		\$8,430		\$8,462
20 Ton Crane	\$15,883		\$16,859		\$16,924
50 Ton Crane	\$24,706		\$26,226		\$26,327
120 Ton Crane	\$44,118		\$46,832		\$47,012

Trucks					
725 (articulated)	\$21,177		\$22,479		\$22,566
730 (articulated)	\$22,942		\$24,352		\$24,446
735 (articulated)	\$28,236		\$29,972		\$30,088
740 (articulated)	\$31,765		\$33,719		\$33,849
769D					
773E					
777D					
785C					
793C					
797B					
613E (5,000 gal) Water Wagon	\$7,941		\$8,430		\$8,462
621E (8,000 gal) Water Wagon					
777D Water Truck					
785C Water Truck					
Dump Truck (10-12 yd ³) (5)	\$7,941		\$8,430		\$8,462

NOTES:					
(1) Power Equipment Source:	CMI/AK 10/12/2012				
(2) Power Equipment Type:	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels
(3) Drilling Equipment Source:	CMI/AK 10/12/2012				
(4) Other Equipment Source:	CMI/AK 10/12/2012				

PREVENTATIVE MAINTENANCE COST [Cost Per Hour] ⁽¹⁾

EQUIPMENT TYPE	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	Greens Creek 2014	do not use	April 2019	do not use	November 2019

Bulldozers					
D6R	\$6.64		\$7.05		\$7.08

Equipment Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated20260</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

Monthly Rental Basis (operating hrs/ period)	486		486		486

D6R w/ Winch	\$6.64		\$7.05		\$7.08
D7R	\$6.59		\$7.00		\$7.02
D8R	\$7.13		\$7.57		\$7.60
D9R	\$8.65		\$9.18		\$9.22
D10R	\$9.74		\$10.34		\$10.38
D11R	\$11.67		\$12.39		\$12.44

Wheeled Dozers

824G					
834G					
844					
854G					

Motor Graders

120H					
14G/H	\$5.78		\$6.14		\$6.16
16G/H	\$4.69		\$4.98		\$5.00
24M					

Track Excavators

312C					
320C	\$4.66		\$4.95		\$4.97
325C	\$4.76		\$5.05		\$5.07
330C					
345B					
365BL	\$6.10		\$6.48		\$6.50
385BL	\$6.95		\$7.38		\$7.41

Equipment Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated20260
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

Monthly Rental Basis (operating hrs/ period)	486		486		486

Scrapers					
631G	\$7.10				
637G PP	\$10.24				
Wheeled Loaders					
924G					
928G	\$4.62		\$4.90		\$4.92
950G					
966G	\$5.55		\$5.89		\$5.91
972G	\$5.67		\$6.02		\$6.04
980G					
988G	\$8.51		\$9.03		\$9.07
990					
992G	\$12.16		\$12.91		\$12.96
994D					
L-2350					
Shovels					
KOM PC2000					
KOM PC3000					
KOM PC4000					
KOM PC5500					
KOM PC8000					
Hydraulic Hammers					
H-120 (fits 325)	N/A	N/A	N/A	N/A	N/A
H-160 (fits 345)	N/A	N/A	N/A	N/A	N/A
H-180 (fits 365/385)	N/A	N/A	N/A	N/A	N/A
Demolition Shears					
S340 (fits 322/325/330)	N/A	N/A	N/A	N/A	N/A
S365 (fits 330/345)	N/A	N/A	N/A	N/A	N/A
S390 (fits 365/385)	N/A	N/A	N/A	N/A	N/A
Demolition Grapples					
G315 (fits 322/325)	N/A	N/A	N/A	N/A	N/A
G320 (fits 325/330)	N/A	N/A	N/A	N/A	N/A
G330 (fits 345/365)	N/A	N/A	N/A	N/A	N/A
Other Equipment					
420D 4WD Backhoe	\$3.29		\$3.49		\$3.51
428D 4WD Backhoe	\$3.29		\$3.49		\$3.51
CS533E Vibratory Roller					
CS663E Vibratory Roller					
CP533E Sheepsfoot Compactor					
CP663E Sheepsfoot Compactor					
Light Truck - 1.5 Ton					

Equipment Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated20260
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

Monthly Rental Basis (operating hrs/ period)	486		486		486

Supervisor's Truck					
Flatbed Truck					
Air Compressor + tools					
Welding Equipment					
Heavy Duty Drill Rig					
Pump (plugging) Drill Rig					
Concrete Pump					
Gas Engine Vibrator					
Generator 5KW					
HDEP Welder (pipe or liner)					
5 Ton Crane					
20 Ton Crane					
50 Ton Crane					
120 Ton Crane					
Trucks					
725 (articulated)	\$15.03	Inc's tires	\$15.95		\$16.02
730 (articulated)	\$15.39	Inc's tires	\$16.34		\$16.40
735 (articulated)	\$21.68	Inc's tires	\$23.01		\$23.10
740 (articulated)	\$23.35	Inc's tires	\$24.79		\$24.88
769D					
773E					
777D					
785C					

Equipment Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated2026</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

Monthly Rental Basis (operating hrs/ period)	486		486		486

793C					
797B					
613E (5,000 gal) Water Wagon	\$7.24	Assumed equal to dur	\$7.69		\$7.71
621E (8,000 gal) Water Wagon					
777D Water Truck					
785C Water Truck					
Dump Truck (10-12 yd3) (5)	\$7.24		\$7.69		\$7.71

(1) PM Source:					

G.E.T CONSUMPTION [Cost Per Hour] ⁽¹⁾ (Wear Items)

EQUIPMENT TYPE	Basis 1 <i>Greens Creek 2014</i>	Basis 2 <i>do not use</i>	Basis 3 <i>April 2019</i>	Basis 4 <i>do not use</i>	Basis 5 <i>November 2019</i>

Bulldozers

D6R	\$4.30		\$4.56		\$4.58
D6R w/ Winch	\$4.30		\$4.56		\$4.58
D7R	\$6.38		\$6.77		\$6.80
D8R	\$8.24		\$8.75		\$8.78
D9R	\$12.81		\$13.60		\$13.65
D10R	\$17.93		\$19.03		\$19.11
D11R	\$26.65		\$28.29		\$28.40

Wheeled Dozers

824G					
834G					
844					
854G					

Motor Graders

120H					
14G/H	\$12.81		\$13.60		\$13.65
16G/H	\$17.51		\$18.59		\$18.66
24M					

Track Excavators

312C					
320C	\$3.90		\$4.14		\$4.16
325C	\$4.91		\$5.21		\$5.23
330C					
345B	\$6.21		\$6.59		\$6.62
365BL					
385BL	\$11.32		\$12.02		\$12.06

Scrapers

Equipment Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated20260
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

Monthly Rental Basis (operating hrs/ period)	486		486		486

631G	\$7.05		\$7.48		\$7.51
637G PP	\$8.86		\$9.40		\$9.44
Wheeled Loaders					
924G					
928G	\$3.83		\$4.07		\$4.08
950G					
966G	\$8.94		\$9.49		\$9.53
972G	\$11.31		\$12.01		\$12.05
980G					
988G	\$12.10		\$12.84		\$12.89
990					
992G	\$28.66		\$30.42		\$30.54
994D					
L-2350					
Shovels					
KOM PC2000					
KOM PC3000					
KOM PC4000					
KOM PC5500					
KOM PC8000					
Hydraulic Hammers					
H-120 (fits 325)	\$4.96		\$5.27		\$5.29
H-160 (fits 345)	\$9.67		\$10.26		\$10.30
H-180 (fits 365/385)	\$11.46		\$12.16		\$12.21
Demolition Shears					
S340 (fits 322/325/330)					
S365 (fits 330/345)					
S390 (fits 365/385)					
Demolition Grapples					
G315 (fits 322/325)					
G320 (fits 325/330)					
G330 (fits 345/365)					
Other Equipment					
420D 4WD Backhoe	\$3.00		\$3.18		\$3.20
428D 4WD Backhoe	\$3.00		\$3.18		\$3.20
CS533E Vibratory Roller					
CS663E Vibratory Roller					
CP533E Sheepsfoot Compactor					
CP663E Sheepsfoot Compactor					
Light Truck - 1.5 Ton					
Supervisor's Truck					

Equipment Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated20260
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

Monthly Rental Basis (operating hrs/ period)	486		486		486

Flatbed Truck					
Air Compressor + tools	N/A	N/A	N/A	N/A	N/A
Welding Equipment	N/A	N/A	N/A	N/A	N/A
Heavy Duty Drill Rig					
Pump (plugging) Drill Rig					
Concrete Pump	N/A	N/A	N/A	N/A	N/A
Gas Engine Vibrator	N/A	N/A	N/A	N/A	N/A
Generator 5KW	N/A	N/A	N/A	N/A	N/A
HDEP Welder (pipe or liner)	N/A	N/A	N/A	N/A	N/A
5 Ton Crane					
20 Ton Crane					
50 Ton Crane					
120 Ton Crane					

Trucks					
725 (articulated)					
730 (articulated)					
735 (articulated)					
740 (articulated)					
769D					
773E					
777D					
785C					
793C					
797B					
613E (5,000 gal) Water Wagon					
621E (8,000 gal) Water Wagon					
777D Water Truck					
785C Water Truck					
Dump Truck (10-12 yd3) (5)	\$2.81		\$2.98		\$2.99

Notes:					
(1) G.E.T. Source: CAT Historical Data					

TIRE COST TABLE [Cost Per Tire^(1,2,3)]

EQUIPMENT TYPE	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	Greens Creek 2014	do not use	April 2019	do not use	November 2019
Bulldozers					
D6R	N/A	N/A	N/A	N/A	N/A
D6R w/ Winch	N/A	N/A	N/A	N/A	N/A
D7R	N/A	N/A	N/A	N/A	N/A
D8R	N/A	N/A	N/A	N/A	N/A
D9R	N/A	N/A	N/A	N/A	N/A

Equipment Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated2026</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

Monthly Rental Basis (operating hrs/ period)	486		486		486

D10R	N/A	N/A	N/A	N/A	N/A
D11R	N/A	N/A	N/A	N/A	N/A

Wheeled Dozers

824G					
834G					
844					
854G					

Motor Graders

120H					
14G/H	\$6,165.81		\$6,545.01		\$6,570.29
16G/H	\$7,419.03		\$7,875.30		\$7,905.72
24M					

Track Excavators

312C	N/A	N/A	N/A	N/A	N/A
320C	N/A	N/A	N/A	N/A	N/A
325C	N/A	N/A	N/A	N/A	N/A
330C	N/A	N/A	N/A	N/A	N/A
345B	N/A	N/A	N/A	N/A	N/A
365BL	N/A	N/A	N/A	N/A	N/A
385BL	N/A	N/A	N/A	N/A	N/A

Scrapers

631G	\$16,729.11		\$17,757.95		\$17,826.54
637G PP	\$16,729.11		\$17,757.95		\$17,826.54

Wheeled Loaders

924G	\$5,510.69		\$5,849.60		\$5,872.19
928G	\$5,510.69		\$5,849.60		\$5,872.19
950G	\$7,419.03		\$7,875.30		\$7,905.72
966G	\$11,624.64		\$12,339.56		\$12,387.22
972G	\$11,624.64		\$12,339.56		\$12,387.22
980G	\$14,753.36		\$15,660.69		\$15,721.18
988G	\$19,693.61		\$20,904.77		\$20,985.51
990					
992G	\$39,345.74		\$41,765.50		\$41,926.82
994D					
L-2350					

Shovels

KOM PC2000	N/A	N/A	N/A	N/A	N/A
KOM PC3000	N/A	N/A	N/A	N/A	N/A
KOM PC4000	N/A	N/A	N/A	N/A	N/A
KOM PC5500	N/A	N/A	N/A	N/A	N/A
KOM PC8000	N/A	N/A	N/A	N/A	N/A

Equipment Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated20260
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

Monthly Rental Basis (operating hrs/ period)	486		486		486

Hydraulic Hammers					
H-120 (fits 325)	N/A	N/A	N/A	N/A	N/A
H-160 (fits 345)	N/A	N/A	N/A	N/A	N/A
H-180 (fits 365/385)	N/A	N/A	N/A	N/A	N/A
Demolition Shears					
S340 (fits 322/325/330)	N/A	N/A	N/A	N/A	N/A
S365 (fits 330/345)	N/A	N/A	N/A	N/A	N/A
S390 (fits 365/385)	N/A	N/A	N/A	N/A	N/A
Demolition Grapples					
G315 (fits 322/325)	N/A	N/A	N/A	N/A	N/A
G320 (fits 325/330)	N/A	N/A	N/A	N/A	N/A
G330 (fits 345/365)	N/A	N/A	N/A	N/A	N/A
Other Equipment					
420D 4WD Backhoe					
428D 4WD Backhoe					
CS533E Vibratory Roller	N/A	N/A	N/A	N/A	N/A
CS663E Vibratory Roller	N/A	N/A	N/A	N/A	N/A
CP533E Sheepsfoot Compactor	N/A	N/A	N/A	N/A	N/A
CP663E Sheepsfoot Compactor	N/A	N/A	N/A	N/A	N/A
Light Truck - 1.5 Ton					
Supervisor's Truck					
Flatbed Truck					
Air Compressor + tools	N/A	N/A	N/A	N/A	N/A
Welding Equipment	N/A	N/A	N/A	N/A	N/A
Heavy Duty Drill Rig					
Pump (plugging) Drill Rig					
Concrete Pump	N/A	N/A	N/A	N/A	N/A
Gas Engine Vibrator	N/A	N/A	N/A	N/A	N/A
Generator 5KW	N/A	N/A	N/A	N/A	N/A
HDEP Welder (pipe or liner)	N/A	N/A	N/A	N/A	N/A
5 Ton Crane					
20 Ton Crane					
50 Ton Crane					
120 Ton Crane					
Trucks					
725 (articulated)					
730 (articulated)					
735 (articulated)					
740 (articulated)					
769D					
773E					

Equipment Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated20260</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

Monthly Rental Basis (operating hrs/ period)	486		486		486

777D					
785C					
793C					
797B					
613E (5,000 gal) Water Wagon	\$968.00	Assumed = dmp trck	\$1,027.53		\$1,031.50
621E (8,000 gal) Water Wagon					
777D Water Truck					
785C Water Truck					
Dump Truck (10-12 yd3) (5)	\$968.00		\$1,027.53		\$1,031.50

Notes:					
(1) Unit Cost Basis:	Cost per set				
(2) Cost Basis:	Total cost for all required tires.				
(3) Tire Cost Source:	Purcell Tire Quote 07/09/2012				
(4) Tire Wear Source (defined in model):	Caterpillar Handbook, Edition 35; Ch. 20				

Labor Rates

File Name:	HGCMC_SRCE_Cost_Data_Updated2026
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

HOURLY LABOR RATE TABLE												
EQUIPMENT TYPE ⁽¹⁾ OR JOB DESCRIPTION	Basis 1		Basis 2		Basis 3		Basis 4		Basis 5		Basis 6	
	Greens Creek 2014		do not use		Greens Creek 2019 - April 2019		do not use		Greens Creek 2019 - November 2019		do not use	
EQUIPMENT OPERATORS - Labor Groups and Base Pay Rate (\$/hr) ⁽²⁾												
Bulldozers												
D6R	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
D6R w/ Winch	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
D7R	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
D8R	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
D9R	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
D10R	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
D11R	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Wheeled Dozers												
824G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
834G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
844	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
854G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Motor Graders												
120H	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
14G/H	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
16G/H	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
24M	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Track Excavators												
312C	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
320C	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
325C	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
330C	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
345B	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
365BL	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
385BL	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Scrapers												
631G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
637G PP	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Wheeled Loaders												
924G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
928G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
950G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
966G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
972G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
980G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
988G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
990	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
992G	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
994D	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
L-2350	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Shovels												
KOM PC2000	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
KOM PC3000	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
KOM PC4000	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
KOM PC5500	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
KOM PC8000	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Hydraulic Hammers												
H-120 (fits 325)												
H-160 (fits 345)												
H-180 (fits 365/385)												
Demolition Shears												
S340 (fits 322/325/330)												
S365 (fits 330/345)												
S390 (fits 365/385)												
Demolition Grapples												
G315 (fits 322/325)												
G320 (fits 325/330)												
G330 (fits 345/365)												
Other Equipment												
420D 4WD Backhoe	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
428D 4WD Backhoe	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
CS533E Vibratory Roller	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
CS663E Vibratory Roller	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
CP533E Sheepsfoot Compactor	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
CP663E Sheepsfoot Compactor	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
Light Truck - 1.5 Ton	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Supervisor's Truck	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Flatbed Truck	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Air Compressor + tools	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Welding Equipment	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Heavy Duty Drill Rig	S2204	\$59.93			S2204	\$71.84			S2204	\$71.84		
Pump (plugging) Drill Rig	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Concrete Pump												
Gas Engine Vibrator	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
Generator 5KW												
HDEP Welder (pipe or liner)												
5 Ton Crane	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		

Labor Rates

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated2026l</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

HOURLY LABOR RATE TABLE

EQUIPMENT TYPE ⁽¹⁾ OR JOB DESCRIPTION	Basis 1		Basis 2		Basis 3		Basis 4		Basis 5		Basis 6	
	Greens Creek 2014		do not use		Greens Creek 2019 - April 2019		do not use		Greens Creek 2019 - November 2019		do not use	
20 Ton Crane	A1601	\$58.13			A1601	\$60.71			A1601	\$60.71		
50 Ton Crane	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
120 Ton Crane	A1602	\$60.01			A1602	\$61.94			A1602	\$61.94		
Fringe Benefits												
Equip Op Fringe Benefits (\$/hr)		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		
Zone and Area Adjustments - Miles and Rates (\$/hr) ⁽³⁾												
Equipment Zone 1	none	\$0.00			none	\$0.00			none	\$0.00		
Equipment Zone 2	none	\$0.00			none	\$0.00			none	\$0.00		
Equipment Zone 3	none	\$0.00			none	\$0.00			none	\$0.00		
Equipment Zone 4	none	\$0.00			none	\$0.00			none	\$0.00		
Equipment Zone 5												
Equipment Zone 6												
Equipment Zone 7												
NOTES:												
(1) Equipment Type:	Catepillar model or equivalent		Catepillar model or equivalent		Catepillar model or equivalent		Catepillar model or equivalent		Catepillar model or equivalent		Catepillar model or equivalent	
(2) Equipment Operator Source:	Alaska Dept. of Labor and				Alaska Dept. of Labor and				Alaska Dept. of Labor and			
(3) Zone Basis:												
TRUCK DRIVERS - Labor Groups and Base Pay Rate (\$/hr) ⁽⁴⁾												
725 (articulated)	A2101	\$57.69			A2101	\$63.62			A2101	\$63.62		
730 (articulated)	A2101	\$57.69			A2101	\$63.62			A2101	\$63.62		
735 (articulated)	A2101	\$57.69			A2101	\$63.62			A2101	\$63.62		
740 (articulated)	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
769D	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
773E	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
777D	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
785C	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
793C	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
797B	A2102	\$59.05			A2102	\$64.75			A2102	\$64.75		
613E (5,000 gal) Water Wagon	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
621E (8,000 gal) Water Wagon	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
777D Water Truck	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
785C Water Truck	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
Dump Truck (10-12 yd3)	A2105	\$54.84			A2105	\$64.77			A2105	\$64.77		
Fringe Benefits												
Truck Driver Fringe Benefits (\$/hr)		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		
Zone and Area Adjustments ⁽⁵⁾												
Truck Zone 1	none	\$0.00			none	\$0.00			none	\$0.00		
Truck Zone 2	none	\$0.00			none	\$0.00			none	\$0.00		
Truck Zone 3	none	\$0.00			none	\$0.00			none	\$0.00		
Truck Zone 4												
Truck Zone 5												
Truck Zone 6												
Truck Zone 7												
NOTES:												
(4) Truck Driver Source:												
(5) Zone Basis:												
LABORERS - Labor Groups and Base Pay Rate (\$/hr) ^(6,7)												
General Laborer	S1201	\$50.69			S1201	\$68.26			S1201	\$68.26		
Skilled Laborer	S1203	\$57.73			S1203	\$69.52			S1203	\$69.52		
Driller's Helper	A1604	\$56.53			A1604	\$62.10			A1604	\$62.10		
Rodmen (reinforcing concrete)	S0401	\$53.77			S0401	\$63.69			S0401	\$63.69		
Cement finisher	S0401	\$53.77			S0401	\$63.69			S0401	\$63.69		
Carpenter	A0301	\$58.82			A0301	\$61.77			A0301	\$61.77		
Fringe Benefits												
Laborer Fringe Benefits (\$/hr)												
Carpenter Fringe Benefits (\$/hr)												
Zone and Area Adjustments ⁽⁸⁾												
Laborer Zone 1	none	\$0.00			none	\$0.00			none	\$0.00		
Laborer Zone 2	none	\$0.00			none	\$0.00			none	\$0.00		
Laborer Zone 3	none	\$0.00			none	\$0.00			none	\$0.00		
Laborer Zone 4												
Laborer Zone 5												
Laborer Zone 6												
Laborer Zone 7												
NOTES:												
(6) Laborer Source:	Alaska DB 2012				Alaska DB 2018				Alaska DB 2018			
(7) Carpenter Source:	Alaska DB 2012				Alaska DB 2018				Alaska DB 2018			
(8) Zone Basis:	Not used											
PROJECT MANAGEMENT AND TECHNICAL LABOR - Base Pay Rate (\$/hr) ⁽⁹⁾												
Project Manager		\$150.00										
Foreman		\$75.00				\$88.76		increased proportionally to the	\$88.76			increased p
Field Geologist/Engineer		\$125.00										
Field Tech/Sampler		\$75.00				\$88.76		increased proportionally to the	\$88.76			increased p
Range Scientist		\$125.00										

Labor Rates

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated2026l</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

HOURLY LABOR RATE TABLE

[illegible]

Fuel, Etc.							
Description	Units	Cost/unit	Cost/unit	Cost/unit	Cost/unit	Cost/unit	Cost/unit
Off-road Diesel - delivered ⁽¹⁾	\$/gal	\$4.14	, JS, June 28, 2012	\$4.14		\$4.14	
Pickup Truck Travel	\$/mi						
Electical Power	\$/kWh	\$0.1000		\$0.1500		\$0.1500	
Diesel power	\$/kWh	\$0.32		\$0.32		\$0.32	
Water treatment reagents	\$/gal						
Notes:		March 21, 2014 James Carson at Taku Fuel					

Nevada Standardized Bond Calculation
Misc. Unit Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

MISCELLANEOUS COST TABLE												
JOB DESCRIPTION		Basis 1		Basis 2		Basis 3		Basis 4		Basis 5		Basis 6
		Greens Creek 2014		do not use		Greens Creek 2019 - April 2019		do not use		Greens Creek 2019 - November 2019		do not use
REVEGETATION												
Item	Units	Labor	Equip	Labor	Equip	Labor	Equip	Labor	Equip	Labor	Equip	Labor
Seeding - Broadcast Manual ⁽¹⁾	\$/acres	\$0.00	\$0.00			\$0.00	\$0.00			\$0.00	\$0.00	
Seeding - Broadcast Mechanical ⁽¹⁾	\$/acres	\$37.17	\$20.34			\$39.46	\$21.59	2014 cost adjusted for inflation		\$39.61	\$21.67	2014 cost adjusted for inflation
Seeding - Drill ⁽¹⁾	\$/acres	\$37.17	\$20.34			\$39.46	\$21.59	2014 cost adjusted for inflation		\$39.61	\$21.67	2014 cost adjusted for inflation
Seeding - Hydroseeding ⁽¹⁾	\$/acres	\$37.17	\$20.34			\$39.46	\$21.59	2014 cost adjusted for inflation		\$39.61	\$21.67	2014 cost adjusted for inflation
Item	Units	Materials		Materials		Materials		Materials		Materials		Materials
Shrub Planting - bare root 6-10 in (150- 250mm) ⁽²⁾	ea.											
Tree Planting - bare root 11-16 in (270- 400mm) ⁽³⁾	ea.											
Cactus Planting ⁽⁴⁾	ea.											
NOTES:												
(1) Seeding Source:												
(2) Shrub Source:												
(3) Tree Source:												
(4) Cactus Source:												
BUILDING and WALL DEMOLITION												
Item	Units		Premium		Premium		Premium		Premium		Premium	
Building Demolition												
Lg. steel	C.F.											
Lg. concrete	C.F.											
Lg. masonry	C.F.											
Lg. mixed	C.F.											
Sm. steel	C.F.											
Sm. concrete	C.F.											
Sm. masonry	C.F.											
Sm. wood	C.F.											
Wall Demolition												
Block 4 in thick	S.F.		20%				20%				20%	
Block 6 in thick	S.F.		20%				20%				20%	
Block 8 in thick	S.F.		20%				20%				20%	
Block 12 in thick	S.F.		20%				20%				20%	
Conc 6 in thick	S.F.		10%				10%				10%	
Conc 8 in thick	S.F.		10%				10%				10%	
Conc 10 in thick	S.F.		10%				10%				10%	
Conc 12 in thick	S.F.		10%				10%				10%	
WASTE DISPOSAL												
Item	Units	Materials		Materials		Materials		Materials		Materials		Materials
Rubbish and Waste Handling												
Dumpster delivery (average for all sizes)	ea.											
Haul (average for all sizes)	ea.											
Rent per month (average for all sizes)	ea.											
Disposal fee per ton (tonne) (average for all sizes)	ton											
NOTES:												
Dumpster Cost Source:												
Disposal Fee Source:												
Hazardous Material Handling - Solids												
Pickup fees 55 gal. drums	ea.	\$230.00				\$244.15		2014 cost adjusted for inflation		\$245.09		2014 cost adjusted for inflation
Bulk material (average)	ton	\$380.00				\$403.37		2014 cost adjusted for inflation		\$404.93		2014 cost adjusted for inflation
Transport - truck load (80 drums, 25 cy (m3), 18 tons)	mile	\$5.23				\$5.55		2014 cost adjusted for inflation		\$5.57		2014 cost adjusted for inflation
Dump site disposal fee	ton	\$267.00				\$283.42		2014 cost adjusted for inflation		\$284.52		2014 cost adjusted for inflation
NOTES:												
Solid Handling Cost Source:		2012 Means Heavy Construction										
Solid Disposal Fee Source:		2012 Means Heavy Construction										
Hazardous Material Handling - Liquids												
Vacuum Truck Pickup (2200 gal or 9,700 litres)	hr.	\$129.00				\$136.93		2014 cost adjusted for inflation		\$137.46		2014 cost adjusted for inflation
Vacuum Truck Pickup (5000 gal or 19,000 litres)	hr.	\$184.00				\$195.32		2014 cost adjusted for inflation		\$196.07		2014 cost adjusted for inflation
Dump site disposal fee	ton	\$267.00				\$283.42		2014 cost adjusted for inflation		\$284.52		2014 cost adjusted for inflation
NOTES:												
Liquid Handling Cost Source:		2012 Means Heavy Construction										
Liquid Disposal Fee Source:		2012 Means Heavy Construction										
Hydrocarbon Contaminated Soils (HCS)												
Insitu Biotreatment	C.Y	\$16.85				\$17.89				\$17.96		2014 cost adjusted for inflation
HCS disposal fee	C.Y	\$267.00				\$283.42				\$284.52		2014 cost adjusted for inflation
NOTES:												
Insitu Treatement Cost Source:		Construction, ave. 02 65 1030-2020, 2021										

Nevada Standardized Bond Calculation
Misc. Unit Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

MISCELLANEOUS COST TABLE						
JOB DESCRIPTION	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5	Bas
	Greens Creek 2014	do not use	Greens Creek 2019 - April 2019	do not use	Greens Creek 2019 - November 2019	do no
HCS Disposal Fee Source:	Construction, ave. 02 65 1030-2020, 2021					

Nevada Standardized Bond Calculation

Misc. Unit Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated202603.xlsm</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

MISCELLANEOUS COST TABLE

JOB DESCRIPTION		Basis 1		Basis 2		Basis 3		Basis 4		Basis 5		Basis 6
		Greens Creek 2014		do not use		Greens Creek 2019 - April 2019		do not use		Greens Creek 2019 - November 2019		do not use
UNDERGROUND OPENING CLOSURE												
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials
Reinforced Concrete Bulkheads and Shaft Covers												
Grade walls - 15 in thick, 8 ft high	C.Y	\$137.00				\$145.43		2014 cost adjusted for inflation		\$145.99		2014 cost adjusted for inflation
Grade walls - 15 in thick, 12 ft high	C.Y	\$137.00				\$145.43		2014 cost adjusted for inflation		\$145.99		2014 cost adjusted for inflation
Elevated conc, 1-way beam & slab - 15ft span	C.Y	\$226.00				\$239.90		2014 cost adjusted for inflation		\$240.83		2014 cost adjusted for inflation
Elevated conc, 1-way beam & slab - 25ft span	C.Y	\$218.00				\$231.41		2014 cost adjusted for inflation		\$232.30		2014 cost adjusted for inflation
Item	Units	Materials		Materials		Materials		Materials		Materials		Materials
Small Adit Plugging												
Bat Gate ⁽⁵⁾	ea.	\$2,732.39				\$2,900.44		2014 cost adjusted for inflation		\$2,911.64		2014 cost adjusted for inflation
Culvert Gate ⁽⁵⁾	C.Y	\$5,464.79				\$5,800.87		2014 cost adjusted for inflation		\$5,823.28		2014 cost adjusted for inflation
Adit Foam Plug ⁽⁶⁾	C.Y	\$273.24				\$290.04		2014 cost adjusted for inflation		\$291.16		2014 cost adjusted for inflation
Production Opening Foam Plug ⁽⁷⁾	C.Y	\$273.24				\$290.04		2014 cost adjusted for inflation		\$291.16		2014 cost adjusted for inflation
NOTES:												
(5) Bat Gate Source:		NV BLM, 2/2006: 8 hr + 1hr mob/demob + 1hr setup per gate (adjusted to 2011)										
(6) Foam Plug Source:		NV BLM, 2/2006: 8 hr + 1hr mob/demob + 1hr setup per adit; 16 hrs per production opening (adjusted to 2011)										
MISC. LINEAR PROJECTS												
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials
Fencing Installation												
Barbed 3-strand	ft	\$0.45				\$0.48		2014 cost adjusted for inflation		\$0.48		2014 cost adjusted for inflation
Barbed 4-strand	ft	\$0.60				\$0.64		2014 cost adjusted for inflation		\$0.64		2014 cost adjusted for inflation
Barbed 5-strand	ft	\$0.75				\$0.80		2014 cost adjusted for inflation		\$0.80		2014 cost adjusted for inflation
Chain link 8 ft -10 ft Install	ft	\$32.50				\$34.50		2014 cost adjusted for inflation		\$34.63		2014 cost adjusted for inflation
Wood stockade fence 6 ft high - Install	ft	\$13.75				\$14.60		2014 cost adjusted for inflation		\$14.65		2014 cost adjusted for inflation
	ft											
	ft											
Fencing Removal												
Barbed 3-strand Removal	ft											
Barbed 4-strand Removal	ft											
Barbed 5-strand Removal	ft											
Chain link 8 ft -10 ft Removal	ft											
Wood, all types 4 ft -6 ft high Removal	ft											
	ft											
Culvert Removal												
12 in (300 mm) Diameter	ft											
18 in (450 mm) Diameter	ft											
24 in (600 mm) Diameter	ft											
36 in (1m) Diameter	ft											
Pipeline Removal												
Plastic Pipe 3/4 in (mm) - 4 in (100 mm) diameter	ft											
6 in (150 mm) - 8 in (200 mm)	ft											
10 in (250 mm) - 18 in (450 mm)	ft											
20 in (500 mm) - 36 in (1 m)	ft											
Pipe and Drainpipe Installation												
Water 4in (100mm) 40ft (12m) length, welded HDPE	ft	\$3.44				\$3.65		2014 cost adjusted for inflation		\$3.67		2014 cost adjusted for inflation
Water 6in (150mm) 40ft (12m) length, welded HDPE	ft	\$7.80				\$8.28		2014 cost adjusted for inflation		\$8.31		2014 cost adjusted for inflation
Water 12in (300mm) 40ft (12m) length, welded HDPE	ft											
Drain 4in (100mm) perforated PVC	ft	\$1.40				\$1.49		2014 cost adjusted for inflation		\$1.49		2014 cost adjusted for inflation
Drain 6in (150mm) perforated PVC	ft	\$2.95				\$3.13		2014 cost adjusted for inflation		\$3.14		2014 cost adjusted for inflation
Drain 4in (100mm) corrugated, perf or plain	ft	\$0.54				\$0.57		2014 cost adjusted for inflation		\$0.58		2014 cost adjusted for inflation
Drain 6in (150mm) corrugated., perf or plain	ft	\$1.71				\$1.82		2014 cost adjusted for inflation		\$1.82		2014 cost adjusted for inflation
Drain Rock Preparation												
Item	Units		Total		Total		Total		Total		Total	
Crushing	C.Y											
Screening	C.Y		\$1.00				\$1.06		2014 cost adjusted for inflation		\$1.07	
Misc.												
Item	Units		Premium		Premium		Premium		Premium		Premium	
Backhoe work	C.Y											
Powerline and Transformer Removal			Total		Total		Total		Total		Total	
Single Pole Powerlines ⁽⁷⁾	mile		\$37,975				\$40,311		2014 cost adjusted for inflation		\$40,467	
Double Pole Powerlines ⁽⁸⁾	mile		\$43,400				\$46,070		2014 cost adjusted for inflation		\$46,248	
Substation ⁽⁹⁾	unit		\$27,216				\$28,890		2014 cost adjusted for inflation		\$29,001	
NOTES:												
(7) Single Pole Source:		NVEnergy estimate (2009) Adjusted to 2012										
(8) Double Pole Source:		NVEnergy estimate (2009) Adjusted to 2012										

Nevada Standardized Bond Calculation
Misc. Unit Costs

File Name:	HGCMC_SRCE_Cost_Data_Updated202603.xlsm
Date:	March 4, 2026
Cost Basis:	User Data
Author/Source:	Greens Creek

MISCELLANEOUS COST TABLE						
JOB DESCRIPTION	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5	Bas
	Greens Creek 2014	do not use	Greens Creek 2019 - April 2019	do not use	Greens Creek 2019 - November 2019	do no
(9) Transformer Source:	Sierra Pacific Power Company estimate (2004) adjusted to 2019					

Nevada Standardized Bond Calculation

Misc. Unit Costs

File Name:	<i>HGCMC_SRCE_Cost_Data_Updated202603.xlsm</i>
Date:	<i>March 4, 2026</i>
Cost Basis:	<i>User Data</i>
Author/Source:	<i>Greens Creek</i>

MISCELLANEOUS COST TABLE

JOB DESCRIPTION		Basis 1		Basis 2		Basis 3		Basis 4		Basis 5		Basis 6
		Greens Creek 2014		do not use		Greens Creek 2019 - April 2019		do not use		Greens Creek 2019 - November 2019		do not use
EROSION, EVAPORATION and SEDIMENTATION CONTROL												
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials
Rip-Rap & Rock Lining												
Rip-Rap 3/8 to 1/4 C.Y. pieces, grouted	S.Y.	\$20.00				\$21.23		2014 cost adjusted for inflation		\$21.31		2014 cost adjusted for inflation
Rip-Rap 18 in min thick, no grout	S.Y.	\$5.90				\$6.26		2014 cost adjusted for inflation		\$6.29		2014 cost adjusted for inflation
Gabions, 6 in deep	S.Y.	\$8.80				\$9.34		2014 cost adjusted for inflation		\$9.38		2014 cost adjusted for inflation
Gabions, 9 in deep	S.Y.	\$11.05				\$11.73		2014 cost adjusted for inflation		\$11.77		2014 cost adjusted for inflation
Gabions, 12 in deep	S.Y.	\$16.15				\$17.14		2014 cost adjusted for inflation		\$17.21		2014 cost adjusted for inflation
Gabions, 18 in deep	S.Y.	\$21.50				\$22.82		2014 cost adjusted for inflation		\$22.91		2014 cost adjusted for inflation
Gabions, 36 in deep	S.Y.	\$34.50				\$36.62		2014 cost adjusted for inflation		\$36.76		2014 cost adjusted for inflation
Liner Installation												
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials	Premium	Materials
Site grading	S.F.											
Compaction	S.F.											
Item	Units		Materials		Materials		Materials		Materials		Materials	
60 mil HDPE Liner	S.F.		\$0.43				\$0.46		2014 cost adjusted for inflation		\$0.46	
Construction Management Support												
Item	Units		Materials		Materials		Materials		Materials		Materials	
Office Trailer, Furnished, no hook-ups	month		\$140.00				\$148.61		2014 cost adjusted for inflation		\$149.18	
Toilet Portable, chemical	month		\$198.20				\$210.39		2014 cost adjusted for inflation		\$211.20	
PRODUCTION OR DEWATERING WELL PUMP REMOVAL												
Item	Units	Labor	Equip	Labor	Equip	Labor	Equip	Labor	Equip	Labor	Equip	Labor
Pump Type												
Submersible ⁽¹⁰⁾	ft to pump	\$2.39	\$5.19			\$2.53	\$5.51	2014 cost adjusted for inflation		\$2.54	\$5.53	2014 cost adjusted for inflation
Line Shaft ⁽¹⁰⁾	ft to pump	\$5.57	\$12.11			\$5.91	\$12.86	2014 cost adjusted for inflation		\$5.94	\$12.91	2014 cost adjusted for inflation
NOTES:												
(10) Pump Removal Source:		WDC Exploration 12/2005 (adjusted to 2012)										

Nevada Standardized Bond Calculation Misc. Unit Costs

Nevada Standardized Bond Calculation
Misc. Unit Costs

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Nevada Standardized Bond Calculation Misc. Unit Costs

Nevada Standardized Bond Calculation
Misc. Unit Costs

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Nevada Standardized Bond Calculation
Misc. Unit Costs

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File Name:	<i>CostData STD 3.xls</i>
Date:	<i>December 1, 2005</i>
Cost Basis:	<i>Standardized Data</i>
Author/Source:	<i>Greens Creek</i>

Administrative Cost Rates (%)					
	Cost Ranges for Indirect Cost Percentages				
	<=	<=	<=	>	
1. Engineering, Design and Construction (ED&C) Plan (7)	\$500,000	\$2,500,000	\$25,000,000	\$25,000,000	Small Plan
Variable Rate	3%	3%	3%	3%	3%
	<=	<=	<=	>	
2. Contingency (8)	\$500,000	\$5,000,000	\$50,000,000	\$50,000,000	Small Plan
Variable Rate	13%	13%	13%	13%	13%
3. Insurance (9)		of labor costs			
4. Bond (10)	3.0%	of the O&M costs if O&M costs are >\$100,000			
5. Contractor Profit (11)	15.5%	of the O&M costs			
	<=	<=	<=	>	
6. Contract Administration (12)	\$1,000,000	\$15,000,000	\$25,000,000	\$25,000,000	
Variable Rate	7%	7%	7%	7%	7%

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

NOTE :

