



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

BUREAU OF LAND AND WASTE MANAGEMENT
Division of Mining and Solid Waste Management

June 7, 2016

Mr. Scott McDaniel, Environmental Manager
Haile Gold Mine, Inc.
P.O. Box 128
Kershaw, South Carolian

RE: Approval of Minor Modification Request dated May 13, 2016
Mine Operating Permit I-000601
Haile Gold Mine, Haile Gold Mine, Inc.

Dear Mr. McDaniel:

The Department has approved the requested application to modify (Modification 16-1) the Mine operating permit as of June 7, 2016. Pursuant to Regulation 89-120, the application is approved as outlined in the revised permit document. The modification did not affect the amount of the current reclamation bond.

In summary, the permit has been modified to incorporate two property parcels and acreage associated with the closed section of South Carolina Secondary Road 188. The former McDonald (Tax ID 0136-00-036.03) tract and road acreage has been incorporated into the permit as affected acreage; whereas the former Hilton (Tax ID 0136-00-001.00) has been incorporated as buffer. Consequentially, the total permitted acreage at Haile Gold Mine has increased from 4,567 to 4,590 acres. The requested changes include the process mill design (i.e. run-of-mill pad size increased to allow blending and to improve traffic flow) and substitution of wildlife for chain-link/barbed wire fencing at specific mine facilities.

The revised permit document and the approved Reclamation Plan should be kept on file until the permit has been cancelled by the Department. The appropriate company officials should review these documents periodically as part of the mine inspections, preparation of the annual reclamation report, any future permit modifications, and during mine reclamation. If you have questions, contact Marianna DePratter at 803-898-1369 or via e-mail at depratmp@dhec.sc.gov.

Sincerely,

Joan F. Litton, Director
Division of Mining and Solid Waste Management

enclosure

cc: Marianna DePratter, SCDHEC-Mining
Harry Mathis, Director, Central Midlands Regional EQC

DEPARTMENT OF HEALTH

AND

ENVIRONMENTAL CONTROL

MINE OPERATING PERMIT

PART I:

Haile Gold Mine
Haile Gold Mine, Inc.

Haile Gold Mine, Inc., a corporation, has been granted a Mine Operating Permit, Mine Permit Number I-000601 to operate Haile Gold Mine in accordance with the S.C. Mining Act (S.C. Code Sections 48-20-10 *et seq.*, 1976) and Regulations 89-10 *et seq.* The operator shall conduct this operation as represented in documents submitted to support the issuance of this permit.



JOAN F. LITTON, DIRECTOR

DIVISION OF MINING AND SOLID WASTE MANAGEMENT

PERMIT NUMBER: I-000601
ORIGINALLY ISSUED: July 3, 1984
MODIFIED: June 7, 2016

In accordance with Section 48-20-60 of the South Carolina Mining Act, this Mine Operating Permit shall remain valid unless it terminates as set forth in R.89-270 or is revoked in accordance with Section 48-20-160 and R.89-280. The anticipated mining completion date is shown on the *Schedule for Conservation and Reclamation Practices* in the *Reclamation Plan*.

The approved permit application, *Reclamation Plan*, and all supplemental information referenced herein, are an integral part of this permit. *Land Entry Agreements* and Mine Maps as identified in Part II and Part IV, respectively, are also a part of this permit.

I-000601

Haile Gold Mine, Inc.

Operator: Haile Gold Mine, Inc.

Home Office Address: Haile Gold Mine, Inc.
P.O. Box 128
Kershaw, SC 29067

Local Office Address: Same

Address for Official Mail: Same

Company personnel and title to be the contact for official business and correspondence (The Department should be notified in writing immediately of any change in contact, address, telephone or fax numbers):

Scott McDaniel
Environmental Manager

Telephone: 803-475-1220
Fax: 803-475-2317

LOCATION: The mine is located on the Kershaw, SC U.S.G.S. 7.5' Topographic Map. The approximate U.T.M. coordinates for the site are:

Easting: 541693.9

Northing: 3826211.9

The operation is located in southern Lancaster County approximately two miles northeast of Kershaw, S.C. Specifically the site is located 1.0 mile east of the junction of SC-29-188 (Haile Gold Mine Road) and US Highway 601. The mine's access currently exits north from Haile Gold Mine Road, but will be relocated after permit issuance to exit east from Highway 601.

Part II: MINE OPERATIONS

Haile Gold Mine, Inc., also referred to as the operator for this operation located in Lancaster County, South Carolina, is permitted to mine gold to a maximum depth of 840 feet (-340' MSL) on land owned by the referenced operator. This land is identified in the submitted *Land Entry Agreements* (LEAs). These LEAs must be recorded with the appropriate agency (i.e., Register of Mesne Conveyance, Clerk of Court) in Lancaster County.

MINE/PIT CHARACTERIZATION: The operation will consist of phased mining of multiple open pits as specified in the *Haile Gold Mine I-601 Modification Application* dated November 19, 2010 and revised December 26, 2012. In summary, eight pits will be opened sequentially over a twelve year period (**Site Maps SM-601-V2 through SM-601-V6**). Four of the pits (Mill Zone, Haile, Red Hill, and Chase) will be reclaimed concurrently by backfilling with overburden generated from ongoing mining. One pit (Snake) will be partially backfilled and the remaining pits (combined Snake/Ledbetter, Small, and Champion) will be reclaimed as lakes. Surficial soil (i.e. growth media) will be retained for reclamation. Blasting will be used to fragment overburden and ore prior to loading into haul trucks. Ore will be transported to a stockpile at the lined overburden storage area or to the primary crusher at the mill. The processing mill and tailings impoundment are located as depicted on Site Map (**SM-601-V1**). Overburden will be hauled to designated storage facilities or to previously mined pits.

PROCESSING PLANT LOCATED ON MINE SITE:

The processing plant generally consists of a primary crusher, conveyors, semi-autogenous mill, ball mill, cyclones and eight above-ground leach tanks. Gold is extracted from ore by a Carbon-In-Leach process. Sodium cyanide is the active leaching agent. Waste material produced by the ore grinding/leaching process (tailings) will be pumped as slurry to a lined tailings impoundment (Duckwood TSF). Sub-aerial deposition of tailings will be used to allow solids to settle with solution reporting to the reclaim pool at the southern end of the impoundment. Water accumulating in the reclaim pool will be pumped back to the plant for reuse.

MINE DEWATERING: Extraction wells will be installed around pit perimeters and operated to prevent groundwater from entering the pits during active mining. The predicted drawdown of groundwater will evolve over time as pits are sequentially opened and reclaimed. Groundwater generated from pit dewatering will be pumped to the processing area for use in the mill, or used for site construction and dust suppression. Excess groundwater from mine dewatering will be discharged to Haile Gold Mine Creek. (Note Part X: *Additional Terms and Conditions* #27 through #30 of this Mine Operating Permit regarding groundwater).

BLASTING: Blasting will be performed through the use of advanced blasting techniques to include electronic programmable delays and modern blasting agents in order to maximize blasting efficiency, minimize the displacement of blasted material, minimize the generation of fly rock, and reduce ground vibration. The blasting schedule, the size of each blast, and the amount of explosive used in an individual blast is variable depending on rock characteristics, drilling and production schedules, and safety considerations. Refer to Part X: *Additional Terms and Conditions* for specific conditions to the Mine Operating Permit relative to blasting operations conducted within the permitted area. (Note Part X: *Additional Terms and Conditions* #31 and #32 of this Mine Operating Permit regarding blasting)

Blasting is not permitted within two hundred (200) feet of a public road. In addition, when blasting will occur within three hundred (300) feet of a public road (i.e. Snake, Mill Zone, and Small Pits), the operator shall coordinate with S.C. Department of Public Safety and Lancaster County Department of Public Works to ensure the safety of motorists. All blasts shall be designed to ensure compliance with R.89-150 ground vibration requirements. In accordance with R.89-150(4)I, the operator shall maintain a blasting setback of 1000 feet between the nearest point of blasting and any occupied structures not owned by the operator at the date of permit issuance or where there is no waiver of damage. The blasting setback may be decreased if the operator can demonstrate that through use of alternative precautions (blast design, use of blasting mats, etc), public safety can be ensured.

SIGNIFICANT CULTURAL OR HISTORICAL SITES: One historic resource, Haile Gold Mine, and one historic structure, Haile Gold Mine School, are eligible for listing in the National Register of Historic Places (NRHP). Twenty-seven archaeological sites located within areas affected by mine development have been, or shall be evaluated for eligibility for listing in the NRHP. Haile Gold Mine, Inc. will implement a Memorandum of Agreement (MOA) with the Army Corp of Engineers and the South Carolina Historic Preservation Office to preserve, or to evaluate and mitigate as necessary, the eligible cultural and historic resources at the mine in accordance with Appendix A of the MOA (the Cultural Resources Management Plan). Note Part X: *Additional Term and Condition #5* of this Mine Operating Permit.

VISUAL SCREEN: The mine is located in southern Lancaster County and is surrounded by agricultural and silviculture land. The mine straddles U.S. Highway 601 and the operator has augmented existing vegetation along U.S. Highway 601, where necessary, to screen the operation from motorists. Several facilities will be visible above existing woodlands because of their height (several overburden storage areas (OSA) and the tailings impoundment). Concurrent with construction, sections and benches of these facilities will be sloped and vegetated as soon as feasible to better blend with the surrounding environment. The operator shall maintain an approximate 100 foot setback from property lines to the edge of major mine facilities as depicted on Site Map (SM-601-V1). The setback may be augmented with additional safety measures, if necessary, where the 100 feet cannot be maintained (e.g. the property boundary west of JPAG OSA and the northeastern corner of the tailings impoundment). Fifty (50) feet of the setback will remain undisturbed, except for the length of property line west of JPAG OSA extending to the 601 OSA and the northeast corner of the tailings impoundment where undisturbed buffer will be reduced to 25 feet.

NOISE MONITORING AND CONTROL: The operator shall comply with county noise ordinances and utilize **Best Management Practices (BMPs)** to minimize noise from the mine site. The operator may use noise mitigation measures such as sound cancelling devices on mining/milling equipment, vibration dampeners, and equipment isolation pads. Additional BMPs to be implemented may include electric engine starters on mining equipment, lower speed fans on coolers and radiators, and, where appropriate, rubber liners in grinding mills. Noise BMPs include proper maintenance of mufflers on equipment (trucks, track hoes, pumps, etc.).

OTHER STATE OR FEDERAL PERMITS:

The permittee must obtain, maintain, and update, as appropriate, all necessary State and Federal permits in order to construct and operate the mine.

LAND ENTRY AGREEMENTS:

The operator shall furnish and maintain up-to-date *Land Entry Agreements* on all lands covered under this permit. In the event of any change in ownership on any portion of land covered by this permit, the operator is responsible for furnishing the appropriate and completed *Land Entry Agreement* (Forms MR-600 or MR-700) to the Department within 30 days of the change of ownership.

Land Owner(s) as Listed on *Land Entry Agreement(s)*: Haile Gold Mine, Inc.

Total acres of the contiguous tract(s) of land for which the permit is granted: 4,567

OWNED 4,590.0 LEASED 0.0 TOTAL 4,590.0

Part III: PERMITTED LAND

This permit allows the operator to conduct mining operations within the permitted land as designated through the *Land Entry Agreements* and the permit application. Permitted land, as defined in Section 48-20-40(18), means "the affected land in addition to (a) lands identified for future mining to become affected land; and (b) undisturbed or buffer area that is or may become adjacent to the affected land." Therefore, this permit grants the operator the right to conduct active mining operations within the specified affected land, and to establish buffer zones.

AFFECTED LAND: Under the current mine plan, the total area to be affected by Haile Gold Mine, Inc. is 2,482 acres of land. The operator is permitted to affect up to 2,482 bonded acres of land at any point in time in accordance with the *Schedule for Conservation and Reclamation Practices* in the approved *Reclamation Plan*. Once affected land is released as reclaimed by the Department in accordance with R.89-330, Criteria for Approval of Reclamation and Completed Land Reclamation, that land is no longer considered affected. The affected acres are derived from the operator's response in the *Application for a Mine Operating Permit* (Form MR-400), page 3, line 2H and the Department's review of the application.

FUTURE MINE RESERVES: 0.0 acres are identified as future mine reserves.

BUFFER AREAS: 2,108 acres are identified as buffer area, setbacks or areas that will not be disturbed beyond the pre-mine natural state. These buffer areas are identified on the mine site map. Acres designated as buffer areas are not bonded under the reclamation bond. Any disturbance of the buffer areas (i.e. removal of timber) requires this Mine Operating Permit to be modified **prior** to any such disturbance.

TOTAL PERMITTED AREA: 4,590 acres as submitted on the Land Entry Agreements dated January 18, 2011, December 28, 2012, March 13, 2014, and April 28, 2016.

Part IV: MAPS

The mine site maps were prepared by AMEC Environmental & Infrastructure, Inc. The maps are dated and further identified with the SCDHEC map number as listed and are part of the operating permit.

SM-601-V1	General Layout - Security and Wildlife Fence	July 30, 2014
SM-601-V2	Haile Gold Mine Year 0	December 19, 2012
SM-601-V3	Haile Gold Mine Year 3	December 19, 2012
SM-601-V4	Haile Gold Mine Year 5	December 19, 2012
SM-601-V5	Haile Gold Mine Year 8	December 19, 2012
SM-601-V6	Haile Gold Mine Year 14	December 19, 2012
SM-601(16-1)	Administration Building Relocation	revised June 2, 2016

The reclamation maps were prepared by AMEC Environmental & Infrastructure, Inc. The maps are dated and further identified with the SCDHEC map number as listed and are part of the operating permit.

RM-601-V1	Reclamation Map (Sheet 1 of 2)	September 27, 2012
RM-601-V2	Reclamation Plan (Sheet 2 of 2)	September 27, 2012
RM-601-V3	Reclamation Schedule	August 4, 2014

Part V: FINANCIAL ASSURANCE

Pursuant to Title 48 Chapter 20 Sections 10 - 310 (The South Carolina Mining Act), South Carolina Regulation 89-10 – 350 (The South Carolina Mining Regulations), and the Department's review of the project application and supplemental information, the total financial assurance required for the Haile Gold Mine is set at \$65,000,000, to be provided as set forth in Appendix B. Financial assurance will consist of \$55,000,000 in surety bonds and a \$10,000,000 interest bearing trust or other interest bearing account. All interest will accrue to the benefit of the Department for the prescribed uses. Financial assurance will be adjusted annually for inflation and for actual site conditions over time as determined by the Department. The surety bond and other financial assurance must be maintained in force continuously throughout the life of the mining operation and may only be released, partially or in full, after Department approval. The Department will not adhere to any prescribed bond release schedule but will only approve a release of bonds or other financial assurance after careful evaluation. When releasing financial assurance for a defined scope of reclamation upon its completion, a percentage of the financial assurance will be held by the Department until full effectiveness of the reclamation is demonstrated over an appropriate time period. Any reduction in the \$10,000,000 interest bearing trust or other interest bearing account shall be deemed a substantial modification of the permit as that term is used in S.C. Regs. 89-10, et. seq.

All forms of financial assurance must be: (a) issued solely for the benefit of the State of South Carolina; (b) legally binding instruments acceptable to the Department; (c) issued by or with a guarantor or surety or other financial institution acceptable to the Department; and (d) enforceable by the Department. Financial assurance will not be released under any circumstance without the appropriate Department approvals. Financial assurance instruments must ensure payment to the Department upon the operator's failure to comply with its obligations concerning reclamation, closure or post closure responsibilities, arising from statute, regulation, or this permit. The Department may, at its discretion, approve other forms of financial assurance through the life of the project as long as adequate coverage is maintained.

Financial assurance held by the State may be used by the Department, at its discretion, for the purpose of implementing, maintaining, repairing, or enhancing any aspect of reclamation, closure and post-closure that it determines necessary.

Financial assurance may be cancelled only by sending notice of cancellation by certified mail to the Principal and to the Department, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation to both the Principal and the Department as evidenced by the return receipts. If the financial assurance is not replaced by another acceptable mechanism within 60 days of the notification of cancellation, the funds will be paid to the Department upon demand.

The funding of financial assurance will be phased in accordance with Appendix B to this permit. Failure to provide funding in compliance with Appendix B shall be grounds for permit revocation and bond forfeiture

Part VI: SETTING/PROTECTION OF NATURAL RESOURCES

1. Describe the area of and around the mine site. Specify topography, surface water systems, wildlife habitats, residential houses, commercial properties, recreational areas and/ or public roads.

The site is located in a rural area of southern Lancaster County approximately one and a half miles northeast of Kershaw, South Carolina. The mine straddles U.S. Highway 601. The Little Lynches River forms the southwestern boundary, whereas timber and agricultural lands adjoin the site to the southwest, northeast and northwest. Located at the contact between the Coastal Plain and Piedmont physiographic regions, topography at the site ranges from approximately 370 feet (Little Lynches River flood plain) to 550 feet above mean sea level. Haile Gold Mine Creek and its tributaries, tributaries to the Little Lynches River, and the upper reaches of Camp Branch Creek traverse the site. Pine plantations occupy the northern half of the property where timber harvesting by previous landowners has converted much of the landscape to a weed-shrub habitat. These plantations are dissected by stream corridor forest where timbering was restricted. The southern half of the property has increasing land cover of mixed pine-hardwood forest in areas not previously disturbed by mining. South of Haile Gold Mine Road (S-29-188) there is an increasing amount of hardwood forest, particularly along the slopes to streams. The land cover in previously mined areas consists of managed grasslands.

The nearest residence is located approximately 2000 feet northwest of Small Pit, and west of US Highway 601. Additional residences are located southwest of the site near the junction of Earnest Scott (S-29-219) and Haile Gold Mine Roads (S-29-188) and northwest of the site in the Flat Creek Community along SC Highway 903.

2. Methods used to prevent physical hazards to persons and to any neighboring dwelling, house, school, church, hospital, commercial or industrial building or public road.

Agricultural and silvicultural lands surround the mine, with sparse residential development. Haile Gold Mine Church is located at the intersection of Haile Gold Mine and Earnest Scott Roads, approximately one mile east of the mine. The S.C. Department of Corrections' Kershaw Correctional Institute is located approximately ¾ mile west of the mine, and ½ mile south of the tailings facility.

The operator shall erect a perimeter fence as depicted on Site Map (SM-601-V1) to restrict site access and maintain security. *Warning* and/ or *Danger* signs shall be posted along the perimeter fence. Entrance(s) to the site shall be gated and kept locked when inactive.

Potential impacts to U.S. Highway 601, S.C. Highway 265, Earnest Scott, Haile Gold Mine, and Duckwood Roads shall be minimized by a 100 foot setback from major mine facilities (e.g. overburden storage areas, haul roads, pits, and the tailings impoundment). Best Management Practices (BMPs) shall be used to prevent accumulation of sediment/ soil on public roads carried by trucks and other vehicles exiting the mine site. Any accumulations of soil shall be removed by the operator on a daily basis (or more frequently if needed).

The operator shall establish a protected area or establish procedures to minimize fuel spillage or incidental spillage of other petroleum products during storage, refueling of equipment, or in the performance of maintenance on equipment. Contaminated materials resulting from contact with petroleum products must be removed from the site and properly disposed to prevent contamination to ground and surface water resources.

3. Methods used to prevent an adverse effect on the purposes of a publicly owned park, forest or recreation area.

Forty Acre Rock Heritage Preserve is located approximately six miles north-northeast of the mine. Carolina Sandhills National Wildlife Refuge is located approximately twelve miles south of the mine. Given the distance between Haile Gold Mine and these publicly owned properties, no adverse effects are anticipated from mine operations.

4. Measures taken to insure against substantial deposits of sediment in stream beds or lakes.

The operator shall comply with NPDES General Stormwater Permit for Industrial Activity (SCR004763) and the Stormwater Pollution Prevention Plan developed for this site. The General Stormwater Permit requires utilization of structures and non-structural techniques for stormwater management, visual assessment and documentation of the effectiveness of stormwater controls and implementation of corrective actions if needed. NPDES Permit SCR004763 also requires completion of routine inspections and benchmark sampling.

4. Measures taken to insure against substantial deposits of sediment in stream beds or lakes. (con't)

During construction of the ore processing plant, the operator shall comply with NPDES Stormwater Construction Permit SCR10S309. Once construction is complete, coverage under the General Stormwater Permit shall be expanded to incorporate the processing area.

5. Measures taken to insure against landslides or unstable mine walls.

Haile Gold Mine, Inc. is responsible for maintaining stable mine walls and appropriate setbacks. The operator shall implement recommendations with regard to footwall stability in the Snake, Ledbetter, Haile, Mill Zone, and Red Hill Pits pursuant to the *Report of Feasibility Level Pit Slope Evaluation dated October 2010*. The operator shall complete slope stability analyses for Chase, Champion and Small Pits prior to their development.

Overburden storage areas and the tailings impoundment shall be constructed with overall slopes no steeper than 3H:1V). The operator shall construct the overburden storage area for potentially acid generating waste rock (JPAG OSA) and the tailings storage facility pursuant to the *Haile Gold Mine Tailing and Process Water Management Permitting Design Report* dated November 15, 2010, as revised in the *Duckwood Tailings Storage Facility Detailed Design* dated August 31, 2012, and Dam Safety Construction Permit 29-007. Pursuant to NPDES Industrial General Permit for Stormwater (SCR004763), the operator shall install and maintain appropriate stormwater controls at overburden storage and the tailings impoundment areas to ensure slope stability.

6. Measures taken to insure against acid water generation at the mine site that may result in pollution on adjacent property.

The operator shall implement the *Haile Gold Mine Overburden Management Plan* approved December 14, 2015 to identify, separate and manage potentially acid generating (PAG) materials. Waste rock with a strong potential to generate acid rock drainage (ARD) shall be managed in a lined overburden storage area (JPAG OSA). Waste rock with a moderate potential to generate ARD shall be managed in JPAG OSA, or amended with a base (i.e. lime and/or another alkaline material as approved by SCDHEC) and used as subaqueous fill within previously mined pits. Inert waste rock and overburden shall be used in mine development or managed in the James, Robert, Hilltop, Hayworth, and Ramona overburden storage areas (see **SM-601-V1**) or used for pit backfill. The operator shall implement the confirmation sampling protocol specified in the approved *Haile Gold Mine Overburden Management Plan* to verify effective segregation and management of waste rock.

Runoff and seepage from mine facilities having the potential to generate ARD (JPAG OSA, pit sumps, low-grade ore stockpile, etc.) shall be collected and sent to the mill for use as process makeup water or treated pursuant to NPDES Discharge Permit SC0040479 and discharged.

7. Measures taken to minimize or eliminate fugitive dust emissions from the permitted area.

The operator shall comply with SCDHEC Air Quality Construction Permit AIR-025354. Prior to mine development, the operator shall implement a Fugitive Dust Control Plan (FDCP) in accordance with Air Quality Construction Permit 1460-0070-CA.

Part VII: STANDARD CONDITIONS OF MINE OPERATING PERMIT

1) SURVEY MONUMENTS: In accordance to R.89-130, the operator shall install and maintain the two required permanent survey monuments or control points within the permitted area as shown on the mine site map. At the discretion of the Department the operator may be required to mark the area to be affected with flagging or institute other appropriate measures.

2) RIGHT OF ENTRY: Pursuant to Section 48-20-130 and R.89-240, the operator shall grant the Department and/or duly appointed representatives access to the permitted area for inspection to determine whether the operator has complied with the reclamation plan, the requirements of this chapter, rules and regulations promulgated hereunder, and any terms and conditions of this permit.

3) RECORDS RETENTION: Any records the Department requires the operator to maintain through additional terms and conditions of this permit or by regulations shall be kept on site or at the office identified for receipt of official mail and open for inspection during normal business hours. The records shall be maintained for a minimum of fifteen (15) years or as specified by the Department. The operator shall furnish copies of the records upon request to the Department.

4) PERMIT MODIFICATIONS: Pursuant to Section 48-20-80, the permit and/or *Reclamation Plan* may be modified upon approval by the Department. Requests for permit and/or *Reclamation Plan* modifications may be made to the Department on Form MR-1300. The operator shall submit any requested supporting data for consideration during the Department's evaluation of the modification request. If a modification request is determined to be substantial by the Department, the modification request will be public noticed pursuant to R.89-100 and a modification fee will be required as specified in R.89-340.

If the Department determines activities proposed under the *Reclamation Plan* and other terms and conditions of the permit are failing to achieve the purpose and requirements of the S.C. Mining Act and Regulations, the Department shall notify the operator of its intentions to modify the permit and/or Reclamation Plan pursuant to Section 48-20-150.

5) TRANSFER OF PERMIT: Pursuant to Section 48-20-70, this permit may be transferred to another responsible party. The transfer of the permit must be conducted in accordance with R.89-230. The transferor of the permit will remain liable for all reclamation obligations until all required documents, plans and the replacement reclamation bond have been submitted and approved by the Department. The transfer will be considered complete when all parties have received notification by certified letters of the approval of the transfer by the Department.

6) LENGTH OF MINE OPERATING PERMIT: In accordance with Section 48-20-60 this Mine Operating Permit will remain valid unless this permit terminates as set forth in R.89-270 or is revoked in accordance with Section 48-20-160 and R.89-280. The proposed anticipated mining completion date shown on the *Schedule for Conservation and Reclamation Practices* in the *Reclamation Plan* is the termination date for the operating permit. The Mine Operating Permit termination date may be changed through a modification to this mining permit if active mining operations extend beyond the proposed termination date. The termination date of this permit may not be extended for the sole purpose of postponing reclamation of the mine site. Reclamation activities in the absence of active mining may be required pursuant to R.89-270.

Pursuant to R.89-80 (B), the operator shall conduct reclamation simultaneously with mining whenever feasible. Reclamation shall be initiated at the earliest practicable time, but no later than within 180 days following termination of mining of any segment of the mine and shall be completed within two years after completion or termination of mining on any segment of the mine.

Part VIII: ENFORCEMENT ACTIONS

Pursuant to Section 48-20-30 of the S.C. Mining Act, "The Department has ultimate authority, subject to the appeal provisions of this chapter, over all mining, as defined in this chapter, and the provisions of the chapter regulating and controlling such activity." Section 48-20-30 allows the Department to assist, cooperate with or supersede other State agencies in taking enforcement action on violations of the State Regulations or violations of the S.C. Mining Act to ensure the purposes of this Act are enforced.

COMPLIANCE:

The operator shall comply at all times with all conditions of this mine operating permit. Non-compliance with this mining permit, statute, or regulations could lead to permit revocation and bond forfeiture pursuant to Sections 48-20-160 and 48-20-170 or other enforcement action allowed by law.

Compliance with the Mine Operating Permit requires the operator to conduct the mining operation as described in the approved *Application for a Mine Operating Permit*. Variance from the *Application for a Mine Operating Permit*, this permit, statute or regulation, without first receiving Department approval, shall be deemed non-compliance with the permit.

An operator or official representative of the mine operator who willfully violates the provisions of the S.C. Mining Act, rules and regulations or willfully misrepresents any fact in any action taken pursuant to this chapter or willfully gives false information in any application or report required by this chapter shall be deemed guilty of a misdemeanor and, upon conviction, shall be fined not less than one hundred dollars nor more than one thousand dollars for each offense. Each day of continued violation after written notification shall be considered a separate offense.

The operator is responsible for all activity on the permitted mine site.

Part IX: REPORTS

1) ANNUAL RECLAMATION REPORTS: The operator shall comply with Section 48-20-120 and Regulation 89-210 and submit an *Annual Reclamation Report* on Form MR-1100 as supplied by the Department. The form for the report will be sent by regular mail to the operator to the mailing address shown on the previous year's *Annual Reclamation Report*. The operator should receive the report form from the Department by July 1 of each year; however, the operator is ultimately responsible for obtaining the *Annual Reclamation Report* form and is not excused from penalty fees for failure to submit the report on time.

The **Annual Operating Fee** is a part of the *Annual Reclamation Report*. Failure to submit a **complete Annual Reclamation Report** (i.e. information and fee) in accordance with Section 48-20-120 and R.89-340 will result in a late penalty payment. The *Annual Reclamation Report* and Annual Operating Fee is required if there is any permitted land not fully reclaimed and **released by the Department by June 30 of each year.**

2) SPECIAL REPORTS: The Department may at any time request information, data or explanations from the operation as to conditions relating to the permitted mine site. Such request from the SCDHEC shall be made in writing to the operator with appropriate time frame stated for the submittal of the requested information to the Department. The operator must produce the information requested within the timeframe specified by the Department.

Part X: ADDITIONAL TERMS AND CONDITIONS

GENERAL OPERATING CONDITIONS

1) Haile Gold Mine, Inc. shall establish wetland buffers and avoid wetland impacts unless such impacts have been permitted by the Army Corps of Engineers pursuant to Section 404 of the Clean Water Act and by SCDHEC pursuant to Section 401 Certification of Water Quality.

PUBLIC SAFETY

2) Haile Gold Mine, Inc. is signatory to the International Cyanide Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold, "the Cyanide Code". The operator shall adhere to the Code's Principles and Standards of Practice as written in 2012 for the duration of milling operations.

3) Haile Gold Mine, Inc. shall develop and maintain an emergency preparedness and response plan in accordance with local, state and federal requirements. The operator shall review the emergency preparedness and response plan annually and provide updated contact information to participating local, State, and Federal government agencies as necessary.

4) Haile Gold Mine Inc. shall install and maintain perimeter, wildlife and security fences as shown on site map **SM-601-V1**. Warning signs shall be placed around the mine perimeter at approximate five hundred foot intervals. The Department may require Haile Gold Mine Inc. to add, move, repair, or maintain security fencing as needed to enhance public safety.

CULTURAL RESOURCES

5) Haile Gold Mine, Inc. shall implement a Memorandum of Agreement (MOA) with the Army Corp of Engineers and the South Carolina State Historic Preservation Office to preserve or evaluate and mitigate as necessary, the eligible cultural and historic resources at the mine in accordance with Appendix A of the MOA (the Cultural Resources Management Plan dated October 15, 2014). If unanticipated archaeological materials are encountered prior to or during construction of mine facilities, or during mining then the operator shall implement Appendix B of the MOA (i.e. the Unanticipated Discovery Plan).

TAILINGS STORAGE FACILITY

6) Haile Gold Mine, Inc. shall construct and operate a recirculating, no discharge process water system to include a tailings impoundment to be constructed in four stages; a reclaim pool; a groundwater collection system and sump; and a process solution under drain collection system with pond and associated pumps and piping to return process water to the mill for reuse. The tailings impoundment and delivery system shall be constructed as specified in the *Haile Gold Mine Tailing and Process Water Management Permitting Design Report* dated November 15, 2010, as revised in the *Duckwood Tailings Storage Facility Detailed Design* dated August 31, 2012.

7) Haile Gold Mine, Inc. shall construct and operate the tailings conveyance system/process water return system pursuant to the *Tailings Distribution Design Report* approved December 14, 2015.

8) Once construction of each phase of the tailings impoundment has been completed, a construction certification report shall be submitted to the Department by a S.C. licensed engineer other than the design engineer. This report shall include at minimum, information prepared in accordance with the detailed design requirements. In addition, the construction certification report shall contain as-built drawings prepared and sealed by a S.C. licensed engineer noting any deviations from the approved engineering plans, and a comprehensive narrative by the engineer. Upon approval of the construction certification report and a satisfactory Department inspection, the Department will approve deposition of tailings within the unit.

9) Haile Gold Mine, Inc. shall operate, maintain and inspect the tailings delivery system, the tailings impoundment, the under drain collection pond and associated leak collection and removal system pursuant to Dam Safety Permit 29-0007 and the *TSF Operation, Maintenance and Inspection Manual* dated August 31, 2012. Process water within the reclaim pool shall be managed so as to maintain storage capacity for the Probable Maximum Precipitation (PMP) event (i.e. 47.96 inches) with four (4) additional feet of freeboard between the pond's surface elevation and the crest of the

tailings dam. SCDHEC shall be notified within twenty-four hours if the freeboard between the surface elevation of the reclaim pond and the crest of the tailings dam is less than eight (8) feet and written notification shall be submitted within seven (7) working days. This written notification shall include a report on what actions will be taken to reestablish and maintain the freeboard of eight (8) feet.

10) Data collected pursuant to the *TSF Operation, Maintenance and Inspection Manual* dated August 31, 2012, and interpretation thereof shall be retained on site and accessible for SCDHEC review.

11) Haile Gold Mine, Inc shall review the *TSF Emergency Action Plan* dated August 2012 annually and submit updated contact information to participating governmental agencies as necessary.

12) The operator shall inspect the Leak Collection and Removal System (LCRS) associated with the TSF underdrain pond daily and monitor accumulated liquids monthly for total volume, Field pH, and Field Conductivity. If there is insufficient volume available to test, this should be entered into the operating record. The operator shall investigate and report instances where the volume has exceeded the 12 month rolling average accumulation over 50 gallons per day; or the 3 month rolling average accumulation over 150 gallons per day. The report shall be in writing and submitted within seven (7) working days of the event and include details of the investigation, with proposed corrective action.

13) Groundwater routed from beneath the composite liner and reporting to the access sump downgradient of the tailings impoundment shall be monitored (flow rate and volume) daily. The operator shall calculate and record monthly averages in the operating record and report to the Department within 24 hours any sudden increase above baseline in the volume or quality (i.e. decrease in clarity, iron/aluminum precipitates) of water collected in the access sump. Groundwater monitoring data shall be summarized and reported semi-annually.

14) To ensure adequate storage capacity through life of mine, Haile Gold Mine, Inc. shall evaluate the stored density and volume of tailings relative to the impoundment's projected filling curve (Drawing A210 of the *Duckwood Tailings Storage Facility Detailed Design* dated August 31, 2012) annually. The evaluation shall be certified by an independent, professional engineer registered in South Carolina and submitted to SCDHEC by January 31 of each year.

15) No later than six months prior to the cessation of milling, Haile Gold Mine, Inc. shall submit for review and approval, a detailed plan and implementation schedule for closure of any phase of the tailings impoundment in accordance with the approved *Haile Gold Mine Reclamation Plan* revised November 2013. The plan should include provisions for closure of the associated process water recirculation system between the tailings impoundment and processing mill, management of excess process water, tailings mass consolidation if necessary, and placement of the tailings cap/cover system with Department approved quality control/assurance procedures.

POTENTIALLY ACID-GENERATING (PAG) OVERBURDEN

16) Haile Gold Mine, Inc. shall construct and operate a lined facility for the storage of pyritic waste rock with the potential to generate acid (JPAG OSA). Phase 1A, 1B, and 1C of JPAG OSA and associated facilities shall be constructed as specified in the *Haile Gold Mine Inc. Potentially Acid Generating Overburden Storage Area and Contact Water Ponds Detailed Design Report* dated September 2014, or any Department approved modifications thereto.

17) No later than six months prior to the completion of Phase 1C of JPAG OSA, Haile Gold Mine, Inc. shall submit for the Department's review, a detailed design report for construction of Phase II of the facility.

18) Once construction of each phase of JPAG OSA has been completed, a construction certification report shall be submitted to the Department by a S.C. licensed engineer other than the design engineer. This report shall include at a minimum, information prepared in accordance with the detailed design requirements. In addition, the construction certification report shall contain as-built drawings prepared and sealed by a S.C. licensed engineer noting any deviations from the approved engineering plans, and a comprehensive narrative by the engineer. Upon approval of the construction certification report and a satisfactory Department inspection, the Department will approve placement of pyritic waste rock within the unit.

19) Data collected pursuant to the Operation, Maintenance and Inspection Manual for JPAG OSA, dated September 2014 (*Appendix F of the Haile Gold Mine, Inc. Potentially Acid Generating Overburden Storage Area and Contact*

I-000601

Water Ponds Detailed Design Report), and interpretation thereof shall be retained on site and accessible for SCDHEC review.

20) Groundwater routed from beneath the composite liner at JPAG OSA via collection pipes shall be monitored daily (flow rate and volume). The operator shall calculate and record monthly averages and report to the Department within 24 hours any sudden increase above baseline in the volume or quality (i.e. decrease in clarity, iron/aluminum precipitates). Samples shall be collected quarterly for Appendix A (Groundwater – List B) constituents specified in the Groundwater and Surface Water Monitoring Plan dated September 2014. Groundwater monitoring data shall be summarized and reported semi-annually.

21) Within six months of permit issuance, Haile Gold Mine, Inc. shall submit for the Department's review, a confirmation sampling protocol to verify effective segregation and management of waste rock pursuant to the *Haile Gold Mine Overburden Management Plan* dated November 2010. The plan shall contain a sampling and identification process to confirm proper management of potentially acid generating waste rock.

22) No later than six months prior to the cessation of mining, Haile Gold Mine, Inc. shall submit for review and approval, a detailed plan and implementation schedule for closure of any phase of JPAG OSA in accordance with the approved *Haile Gold Mine Reclamation Plan* revised November 2013. The plan shall include though not be limited to provisions for the recontouring of benches to achieve long-term stability, provisions for placement of the cap/cover system with appropriate quality control/assurance procedures, and development of a permanent vegetative cover.

WILDLIFE

23) The operator shall install either a galvanized iron wildlife fence (8 feet tall) or a combined chain-link/barbed wire security fence around the perimeter of the tailings impoundment, the underdrain collection pond, the 465 and 469 runoff/seepage ponds, and the 19 M gallon and events ponds in the mill area as depicted on Mine Site Map SM-601-V1.

24) Prior to the initiation of milling, Haile Gold Mine, Inc. shall develop a wildlife protection and mortality response plan for interagency (SC Department of Health and Environmental Control, SC Department of Natural Resources, and US Fish and Wildlife Service) review and approval. The plan must, at a minimum, provide for timely reporting of any wildlife mortality and wildlife activity in or near cyanide management areas. If wildlife mortality occurs or noteworthy wildlife activity is observed in cyanide management areas or other areas that may present a significant risk to wildlife, HGM will plan, report, and undertake timely measures to prevent wildlife impacts.

25) The operator shall, in consultation with the USFW and SCDNR, retain a biologist with avian expertise to provide independent observation of wildlife visitation at the tailings impoundment during the initiation of milling. The position shall be funded by HGM for one year in order to document seasonal variability in wildlife visitation and use of the facility. The frequency of third party monitoring may be adjusted once standard operating parameters (i.e. sodium cyanide leaching concentrations) are attained, if supported by an absence of wildlife mortality and approved by the Department.

26) The operator shall maintain a weak acid dissociable (WAD) cyanide concentration of less than 50 milligrams per liter (PPM) at or before the tailings discharge. Generally, WAD cyanide will not exceed 30 PPM in free liquids within the tailings pool. If samples indicate concentrations of cyanide greater than 30 PPM within the tailings pool, HGM will resample the pool within 15 days of becoming aware of cyanide levels greater than 30 PPM. If resampling confirms cyanide levels above 30 PPM in the tailings pool, HGM will submit a plan to the Department, within 15 days of receiving the confirmation data, detailing steps that will be taken to reduce pool cyanide levels. The plan must be implemented within 15 days of Department approval.

GROUNDWATER PROTECTION

27) The operator shall finalize, and implement the Groundwater and Surface Water Monitoring Plan dated September 2014 and any modifications thereto, as approved by the Department.

28) Haile Gold Mine, Inc. shall retain a hydrologic consultant, certified as a professional geologist or engineer in South Carolina, to serve as an independent third party in monitoring the impact of mine dewatering on surrounding water resources. The consultant shall be independent of Haile Gold Mine, Inc. and will have responsibilities for

maintaining/updating the Haile Gold Mine Water Resources Inventory dated August 7, 2013, and monitoring groundwater drawdown and quality. The consultant shall be responsible for anticipating adverse impacts on wells, ponds, springs and streams and for assisting the Department in response to water resources related complaints.

29) The consultant shall be informed of the installation schedule for dewatering wells around developing pits. The consultant shall have access to construction details of the dewatering wells. Also, the consultant shall perform appropriate tests deemed necessary on the drilled dewatering wells to successfully evaluate groundwater drawdown and to anticipate adverse impacts on wells, ponds, springs and streams. Haile Gold Mine, Inc. shall collect and maintain data on the operation of the dewatering wells throughout the life of the mine. The nature and frequency of the data collected from pit dewatering wells shall be determined by the consultant.

30) If the Department determines a water supply well, spring/seep, or pond is being adversely affected by mine dewatering, then Haile Gold Mine, Inc. shall be responsible for mitigating the impact. Possible mitigation measures include, but are not limited to, improving an existing well, installing a new well, improving or enhancing an existing spring or seep, or providing a replacement water supply for an impacted well, spring, or seep. The operator shall supply the owner of an impacted well with a temporary water supply (e.g. bottled water for drinking, provisions for laundry services etc.) until a permanent water supply is re-established.

BLASTING

31) Prior to the initiation of blasting operations, Haile Gold Mine, Inc. shall be responsible for a pre-blast survey of all structures (commercial buildings, homes, churches, barns, etc.) that are within one-half mile of any blasting conducted by Haile Gold Mine, Inc. The survey may exclude structures that Haile Gold Mine owns or has a waiver of damage. The survey shall be conducted by a consultant retained by Haile Gold Mine, Inc. and approved by the Department. The consultant shall inspect each structure to ascertain the baseline condition of that structure before blasting begins on Haile Gold Mine, Inc.'s property.

Within ninety days of permit issuance, Haile Gold Mine, Inc. shall submit to the Department the names and addresses of the owners of all structures within a one-half mile zone of the perimeter of Mill Zone, Haile, Red Hill, Snake, Ledbetter, Chase, Champion, and Small Pits. The Department will notify, in writing and prior to blasting, the appropriate owners of these structures informing them of their right to have their homes or buildings inspected. Based on the response from the owner, the Department will notify Haile Gold Mine, Inc. as to which structures are to be inspected. The inspection of a structure shall be conducted by the third-party consultant in the presence of the owner and a written report of the inspection shall be submitted to the Department, owner of the structure, and to Haile Gold Mine, Inc.

32) Blasting shall not be conducted within 200 feet of a public road unless otherwise approved by the Department. All blasting operations shall be conducted in a manner so as to eliminate fly rock from leaving Haile Gold Mine's project boundary. When blasting must occur within 300 feet of public roads (i.e. Snake, Mill Zone, and Small Pits), the operator shall coordinate with S.C. Department of Public Safety and Lancaster County Department of Public Works to ensure the safety of motorists.

STANDBY

33) Prior to any temporary cessation of mining, Haile Gold Mine, Inc shall submit a mine deactivation plan for the Department's review and approval. Temporary cessation of mine operations is defined as the withdrawal of normal process plant personnel responsible for daily operation and maintenance of the permitted facilities and/or stoppage of ore processing or facility maintenance for a period in excess of two days. The deactivation plan shall include monitoring schedules, required facility maintenance activities, and provisions for prevention of potential adverse impact caused by the cessation of activity. Inspection and approval from the Department shall be obtained prior to mine reactivation.

CLOSURE/RECLAMATION

34) The Operator shall implement phased closure and concurrent reclamation during mine operation as depicted on Reclamation Maps **RM-601-V1** and **RM-601-V2** and as specified in the approved *Haile Gold Mine Reclamation Plan* revised November 2013, and the reclamation schedule as depicted in Mine Site Map RM-601-V3.

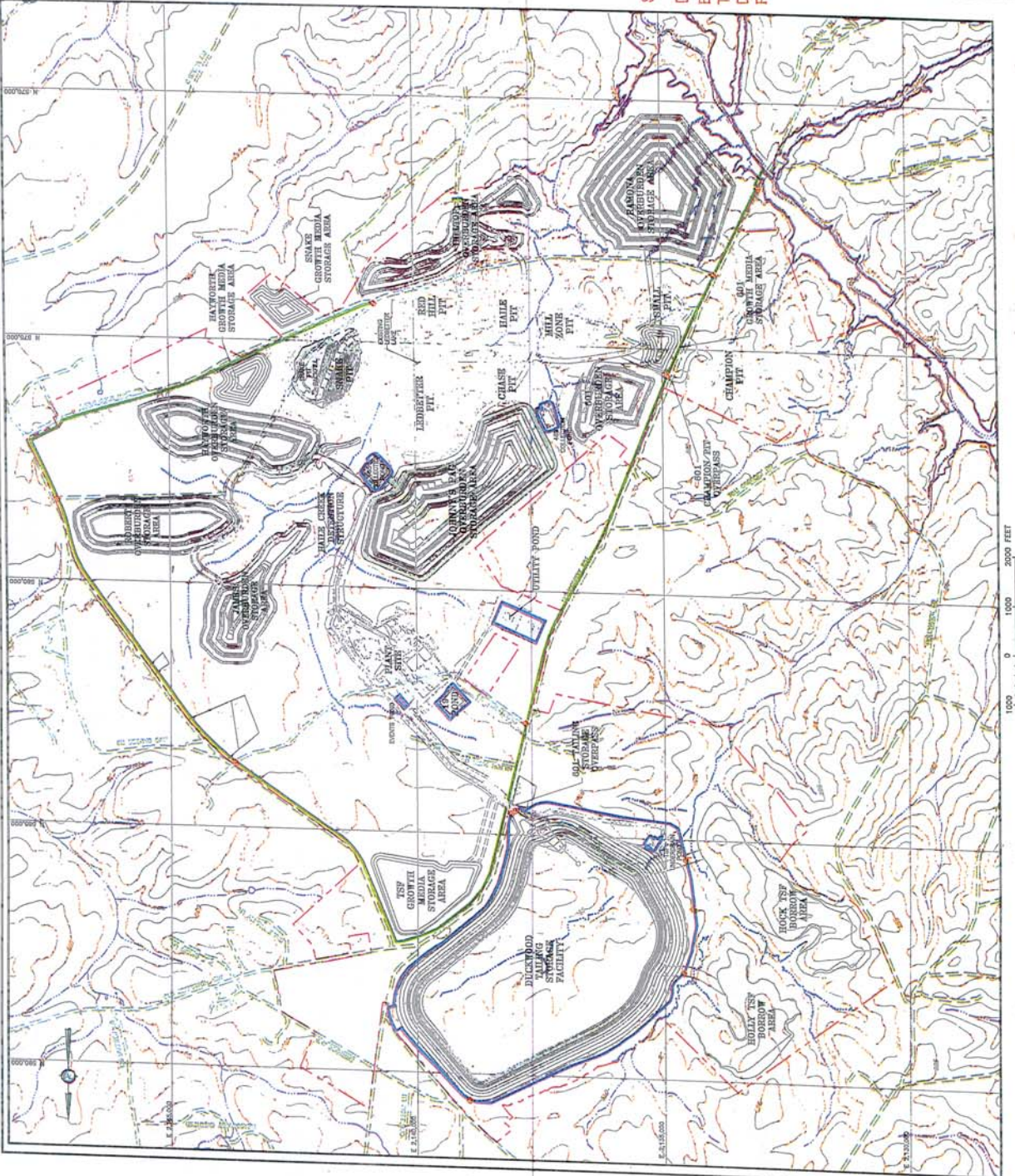
35) Haile Gold Mine, Inc. shall submit unit specific closure plans for Mill Zone, Snake, the combined Haile/Red Hill, and Chase Pits six months prior to achieving final depth at each facility. Each plan shall include cross-sections depicting

the location and elevation of potentially acid generating (PAG) rock exposed in pit walls and a strategy for preventing its oxidation. Pre-pumping groundwater elevation data collected in the immediate vicinity of each pit shall be utilized in the closure design to ensure inundation of pyritic wall rock, where possible, and alkaline-amended backfill. If pyritic wall rock occurs above the anticipated elevation of groundwater recovery, then an alternative method for encapsulation/treatment must be proposed as needed to achieve acceptable water quality. Closure plans shall include anticipated groundwater recovery elevation, cross-sections depicting the character and elevation of backfill and final contour maps for each backfilled unit.

36) Haile Gold Mine, Inc. shall submit unit specific closure plans for the combined Snake/Ledbetter, Small, and Champion pits six months prior to achieving final depth at each facility. Haile Gold Mine, Inc. shall grade, contour and vegetate the surficial coastal plain sand unit to a gradient not steeper than 3H:1V. Unless otherwise approved by the Department, the underlying saprolitic unit shall be graded no steeper than 3H:1V to a depth of six feet below the anticipated water level of future pit lakes. Standard soil conservation practices (terraces, diversions, channel protectors, etc.) shall be proposed to control and dissipate the energy of runoff where appropriate on all slopes.

Each plan shall include cross-sections depicting the location and elevation of PAG rock exposed in completed pit walls, Snake Pit backfill, and anticipated fill rates based on current hydrogeologic and climatic data. For areas where pyritic wall rock occurs above the anticipated elevation of groundwater recovery, an alternative method for encapsulation/treatment must be proposed if necessary to achieve acceptable water quality.

37) The operator must monitor and manage the development of Ledbetter, Small, and Champion Pit Lakes pursuant to the adaptive management plan submitted in Haile Gold Mine, Inc.'s June 9, 2014 correspondence from J. Pappas (Haile Gold Mine, Inc.) to A. Rowe (SC Department of Health and Environmental Control) and any Department approved modifications thereto.



- LEGEND:**
- - - - - EXISTING GROUND SURFACE CONTOUR @ 1 FEET
 - - - - - PROPOSED CONTOURS
 - - - - - PROPOSED PIT CONTOURS
 - - - - - PROPOSED CONSTRUCTION DEMARCATION LINE
 - - - - - EXISTING ROADS
 - - - - - PROPOSED ROADS
 - - - - - EXISTING DRAINAGES
 - - - - - PROJECT BOUNDARY
 - - - - - WETLAND AREA
 - - - - - PROPOSED WILDLIFE FENCE (FT 1020)
 - - - - - PROPOSED SECURITY FENCE (FT 1020)
 - - - - - PROPERTY NOT CONTROLLED BY HGM
 - - - - - APPROXIMATE LIMITS OF 100 YEAR FLOOD PLAIN
 - ONE

NOTES:

1. THIS DRAWING SHOWS THE LOCATION OF THE DEFLECTION OF THIS TRAIL WILL HAVE BEEN BACKFILLED BY TRAIL TIME.
2. THE LOCATIONS SHOWN ON THIS DEFINITION MAY NOT BE EXACT AND MAY CHANGE SLIGHTLY DURING OPERATIONS, BUT REPRESENT THE BEST JUDGMENT OF PLACE AT THIS TIME.
3. HAILE HAS NO CONTROL OVER THE LAND AND OPERATIONS WHICH ARE NOT APPROXIMATELY 50 FEET, WHICH MAY NOT BE APPOINT ON THIS DEFINITION OF THE SITE FEATURES.
4. NO FENCING WILL BE PLACED ALONG HAILE GOLD MINE ROAD IF IT IS PERMITTED FOR CLOSURE IN THE FUTURE, IT WILL BE FENCED TO RESTRICT ACCESS.

Reference: Information and associated data given to HGM from Haile Gold Mine, Inc. and Geoth Hill, 2006 Nov 27.
 This drawing was prepared by HGM. It is the responsibility of the project boundary provided by HGM and the information which was used in the project boundary was determined from USGS Maps.

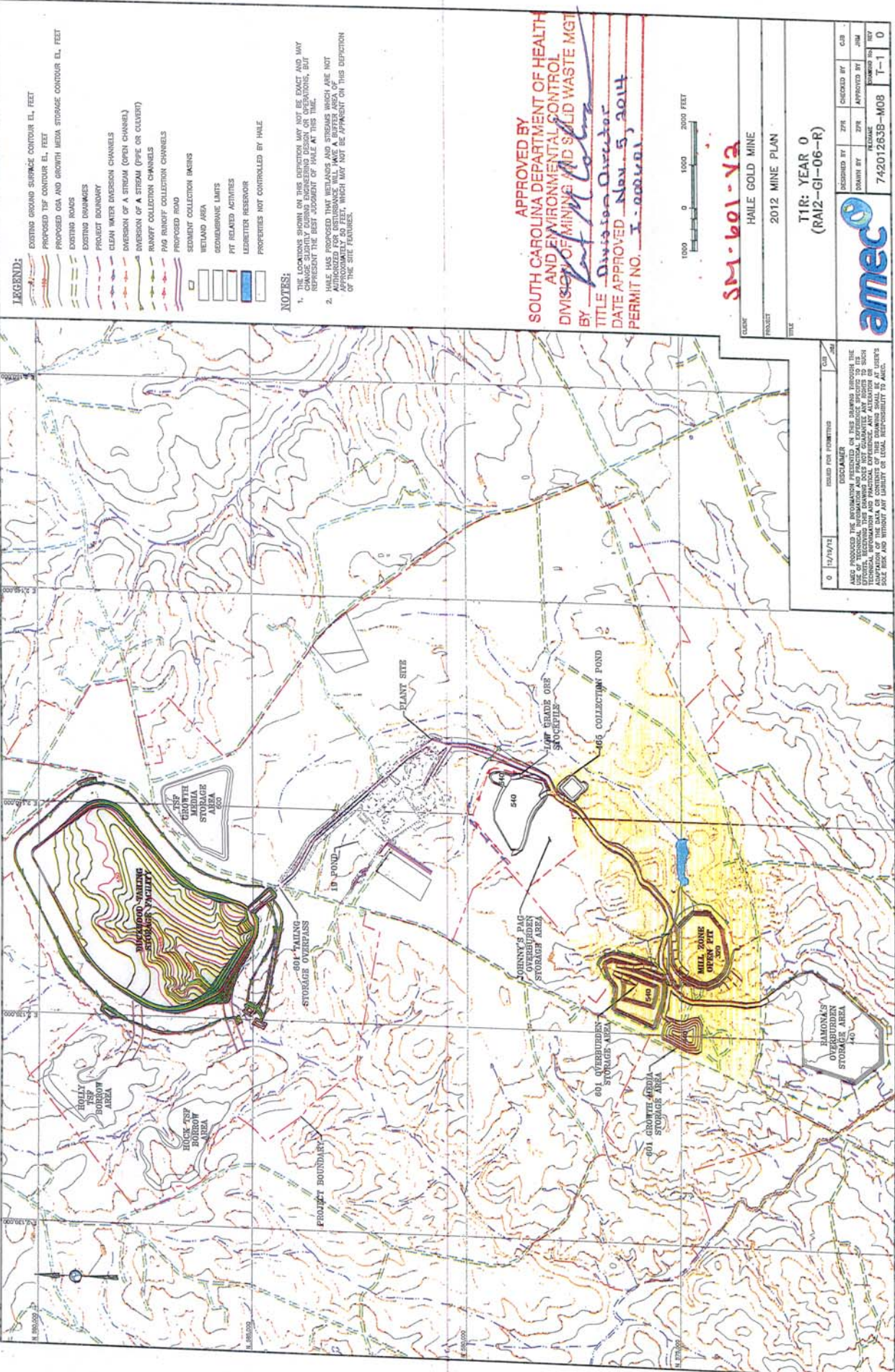
APPROVED BY
SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL
DIVISION OF MINING AND SOLID WASTE MGT
 BY *[Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov 5, 2014*
 PERMIT NO. *I-200401*

SM-601-VI

HAILE GOLD MINE
 HAILE GOLD MINE
 LANCASTER COUNTY, SOUTH CAROLINA
 HAILE GOLD MINE
 SECURITY AND WILDLIFE FENCE
 GENERAL LAYOUT



DESIGNED BY	CF	CHECKED BY	RS	DATE	
DRAWN BY	CF	APPROVED BY	RS	07/20/14	
REVISIONS					
FIGURE NO.					6
HAILE FENCE					1



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR EL. FEET
 - PROPOSED TSP CONTOUR EL. FEET
 - EXISTING GSA AND GROWTH MEDIA STORAGE CONTOUR EL. FEET
 - EXISTING ROADS
 - EXISTING DRAINAGES
 - PROJECT BOUNDARY
 - CLEAN WATER DIVERSION CHANNELS
 - DIVERSION OF A STREAM (OPEN CHANNEL)
 - DIVERSION OF A STREAM (PIPE OR COLEBERT)
 - RANOFF COLLECTION CHANNELS
 - R40 RANOFF COLLECTION CHANNELS
 - PROPOSED ROAD
 - SEDIMENT COLLECTION BASINS
 - WETLAND AREA
 - DEMURRAGE LIMITS
 - PIT RELATED ACTIVITIES
 - LEADZINC RESERVOIR
 - PROPERTIES NOT CONTROLLED BY HALE

NOTES:

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- THE INFORMATION ON THIS DEPICTION IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PERMIT AND APPROXIMATELY 50 FEET, WHICH MAY NOT BE APPARENT ON THIS DEPICTION OF THE SITE FEATURES.

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY *[Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov. 5, 2014*
 PERMIT NO. *I-000011*



SM-601-V3

CLIENT: HAILE GOLD MINE
 PROJECT: 2012 MINE PLAN
 TITLE: TIR: YEAR 0 (RA12-GI-06-R)

DESIGNED BY	ZFE	CHECKED BY	CJB
DRAWN BY	ZFE	APPROVED BY	JMM
DATE	11/17/14	PROJECT NO.	742012535-M08
		REVISION NO.	1-1
		SCALE	1"=1'0"



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LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL. FEET
- PROPOSED TSP CONTOUR EL. FEET
- PROPOSED O&A AND GROWTH MEDIA STORAGE CONTOUR EL. FEET
- PROPOSED PIT CONTOUR EL. FEET
- EXISTING ROADS
- EXISTING DRAINAGES
- PROJECT BOUNDARY
- CLEAN WATER DIVERSION CHANNELS
- UNWEIGHED OF A STREAM (PIPE OR DULVERT)
- PAVEMENT COLLECTION CHANNELS
- PAVEMENT COLLECTION CHANNELS
- PROPOSED ROAD
- SEWAGE COLLECTION BASINS
- WETLAND AREA
- GEOMORPHIC LIMITS
- TALKING BEACH
- APPROXIMATE LIMITS OF RECLAIM POND
- PIT RELATED ACTIVITIES
- PROPERTIES NOT CONTROLLED BY HALE

NOTES:

1. THE LOCATIONS SHOWN ON THIS DEPICTION MAY NOT BE EXACT AND MAY VARY FROM THE ACTUAL LOCATIONS SHOWN ON THE GROUND, BUT REPRESENT THE BEST JUDGMENT OF HALE AT THIS TIME.
2. HALE HAS PROPOSED THAT WETLANDS AND STREAMS WHICH ARE NOT AUTHORIZED FOR DISTURBANCE WILL HAVE A BUFFER AREA OF APPROXIMATELY 50 FEET, WHICH MAY NOT BE APPARENT ON THIS DEPICTION OF THE SITE PLAN.

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY *[Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov. 5, 2014*
 PERMIT NO. *I-2001601*

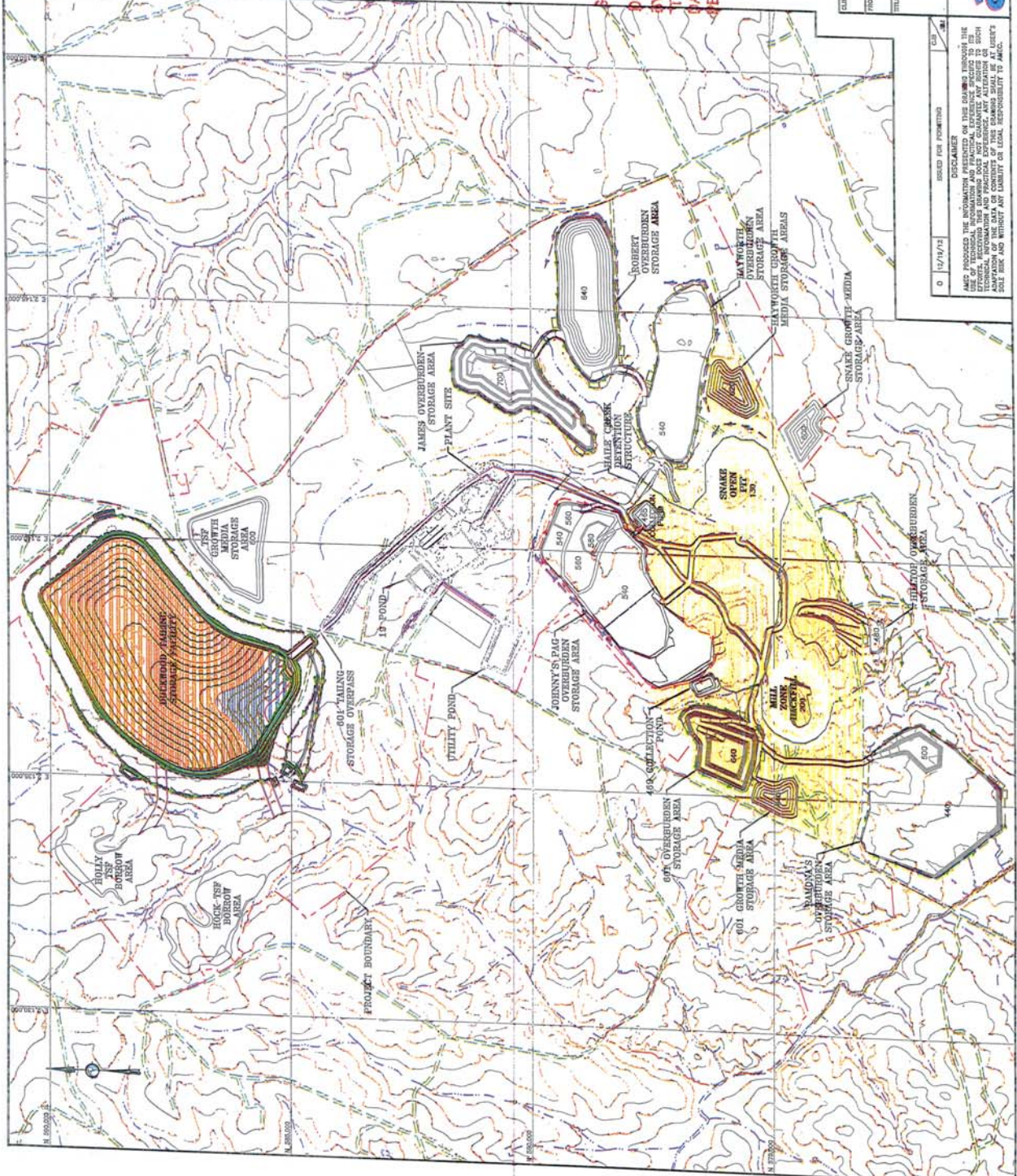


SM-601-V3

HAILE GOLD MINE
 2012 MINE PLAN

T2R: YEAR 3
 (RA12-G1-06-R)

DESIGNED BY	ZPE	CHECKED BY	CUB
DRAWN BY	ZPE	APPROVED BY	JIM
DATE	7/20/12	SCALE	AS SHOWN
PROJECT NO.	74201263B-M08	REVISED BY	T-2
		REVISED DATE	0



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LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL. FEET
- PROPOSED TSE CONTOUR EL. FEET
- PROPOSED CSA AND GROWTH MEDIA STORAGE CONTOUR EL. FEET
- PROPOSED PIT CONTOUR EL. FEET
- EXISTING ROADS
- EXISTING DRAINAGES
- PROJECT BOUNDARY
- CLEAN WATER DIVERSION CHANNELS
- DIVERSION OF A STREAM (PIPE OR CULVERT)
- RUNOFF COLLECTION CHANNELS
- PMA RUNOFF COLLECTION CHANNELS
- PROPOSED ROAD
- SEDIMENT COLLECTION BASINS
- WETLAND AREA
- TALING BEACH
- APPROXIMATE LIMITS OF RECLAIM POND
- PIT RELATED ACTIVITIES
- PROPERTIES NOT CONTROLLED BY HALE

NOTES:

1. THE LOCATIONS SHOWN ON THIS DEPICTION MAY NOT BE EXACT AND MAY REPRESENT THE BEST JUDGMENT OF HALE AT THIS TIME.
2. HALE HAS PROPOSED THAT WETLANDS AND STREAMS WHICH ARE NOT AUTHORIZED FOR DISTURBANCE WILL HAVE A BUFFER AREA OF APPROXIMATE 10 FEET, WHICH MAY NOT BE APPLICABLE ON THIS DEPICTION OF THE SITE FEATURES.

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF SOLID WASTE MGT
 BY *John M. Clark*
 TITLE *Division Director*
 DATE APPROVED *Nov. 5, 2014*
 PERMIT NO. *I-000061*



SM-1601-V4

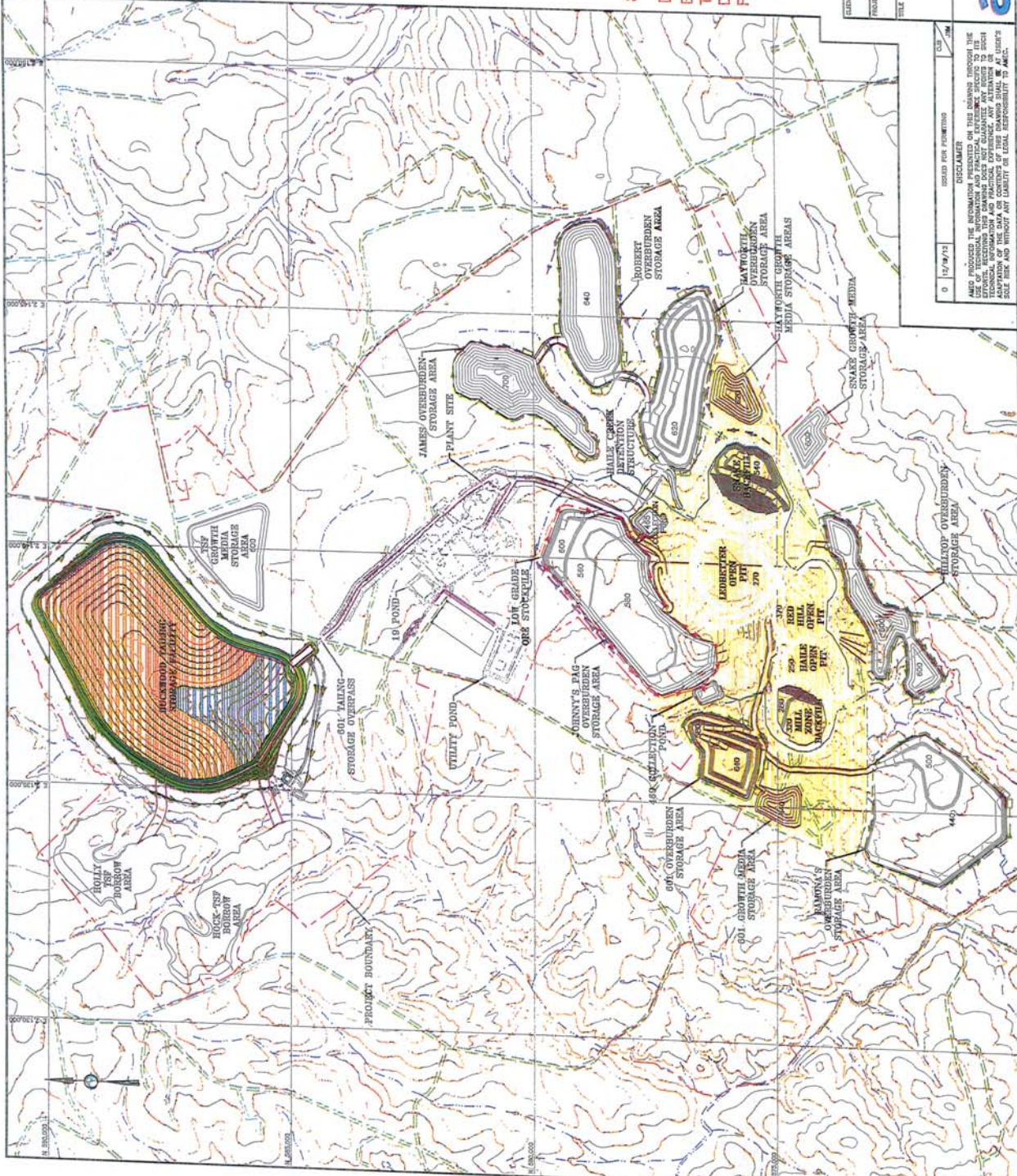
HAILE GOLD MINE
 2012 MINE PLAN

T3R: YEAR 5
 (RA12-G1-06-R)

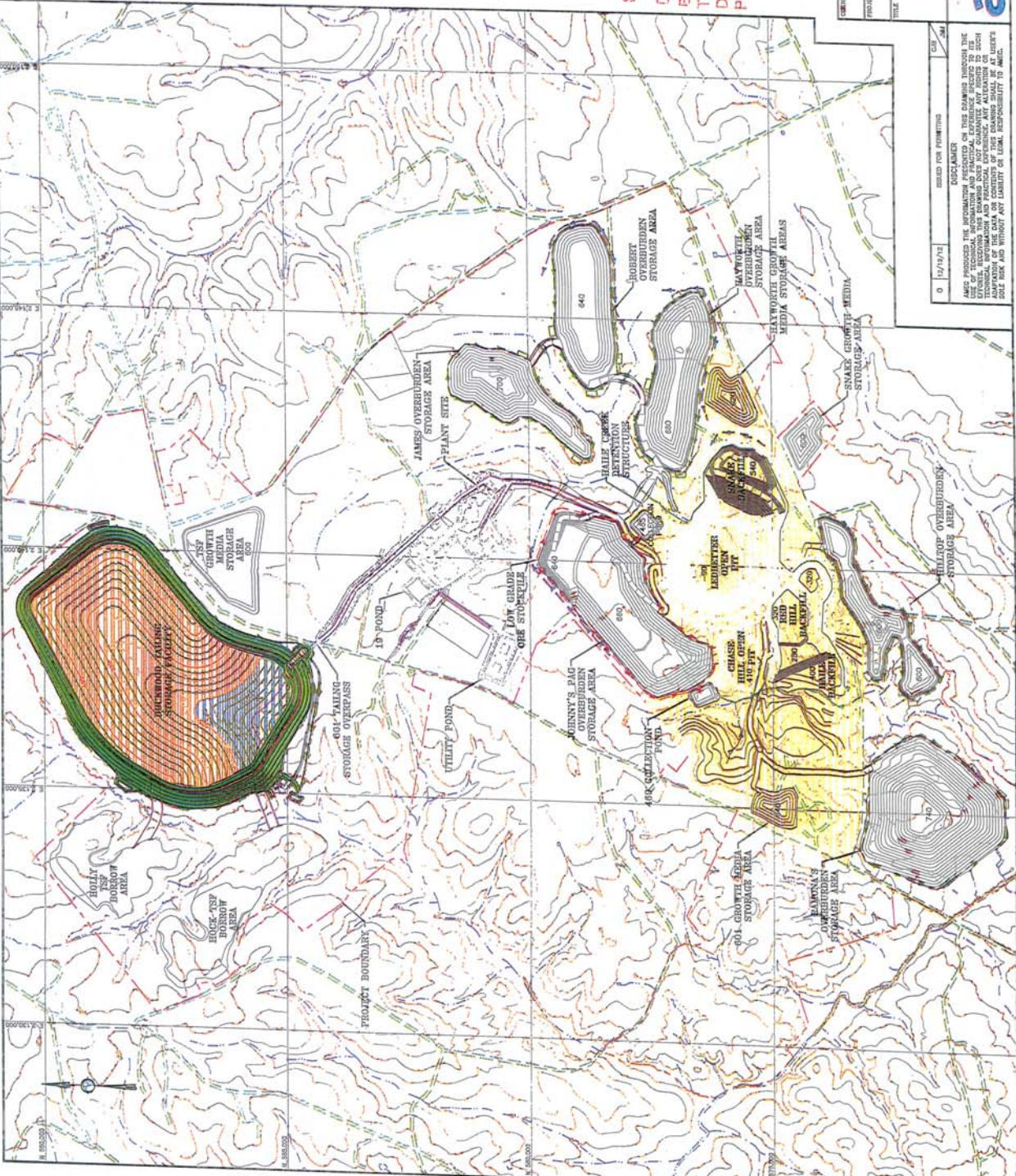
DESIGNED BY	ZRH	CHECKED BY	CJB
DRAWN BY	JFR	APPROVED BY	JIM
REVISION		PERMITTED BY	RAMONDA BRY
			T-3
			0



74201263B-M08



0 12/14/12 ISSUED FOR PERMITTING CJB JMB
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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR 1/2 FEET
 - PROPOSED 1/2" CONTOUR 1/2 FEET
 - PROPOSED 1/4" CONTOUR 1/4 FEET
 - PROPOSED 1/8" CONTOUR 1/8 FEET
 - EXISTING ROADS
 - EXISTING CHANNELS
 - PROJECT BOUNDARY
 - CLEAR WATER DIVERSION CHANNELS
 - DIVERSION OF A STREAM (PIPE OR CULVERT)
 - RANOFF COLLECTION CHANNELS
 - PAD RUNOFF COLLECTION CHANNELS
 - RECONSTRUCTED STREAM
 - PROPOSED ROAD
 - SEDIMENT COLLECTION BASINS
 - WETLAND AREA
 - TAKING BEACH
 - APPROXIMATE LIMITS OF RECLAIM POND
 - PIT RELATED ACTIVITIES
 - PROPERTIES NOT CONTROLLED BY HALE

NOTES:

- THE LOCATIONS SHOWN ON THIS DEPICTION MAY NOT BE EXACT AND MAY CHANGE SLIGHTLY DURING CONSTRUCTION. HOWEVER, THEY REPRESENT THE BEST AVAILABLE INFORMATION AVAILABLE AT THIS TIME.
- THIS DEPICTION DOES NOT SHOW METAGES AND STREAMS WHICH ARE NOT APPROXIMATELY 20 FEET, WHICH MAY NOT BE APPARENT ON THIS DEPICTION OF THE SITE FEATURES.

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF ENVIRONMENTAL WASTE MGT
 BY *[Signature]*
 TITLE *Director*
 DATE APPROVED *Nov 5, 2014*
 PERMIT NO. *1-200401*



SM-601-V5

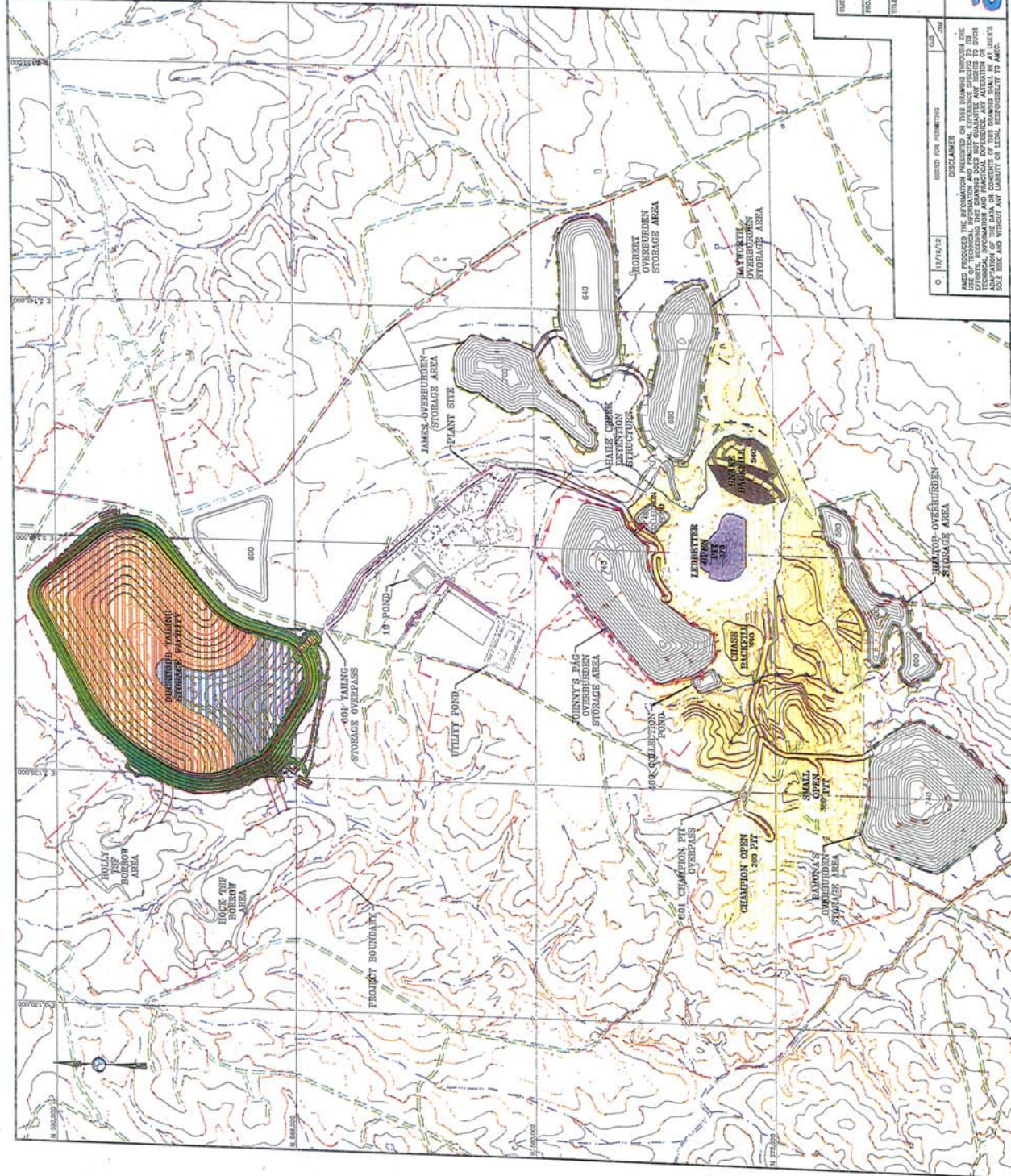
HAILE GOLD MINE
 2012 MINE PLAN

T4R: YEAR 8
 (RA12-G1-06-R)



DESIGNED BY	ZFE	CHECKED BY	CJB
DRAWN BY	ZFE	APPROVED BY	JHM
ESTIMATE NO.	74201263B-M08	REVISION NO.	0
			T-4
			0

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR EL. FEET
 - PROPOSED TSE CONTOUR EL. FEET
 - PROPOSED O&A AND GROWTH MEDIA STORAGE CONTOUR EL. FEET
 - PROPOSED PIT CONTOUR EL. FEET
 - EXISTING POND
 - EXISTING DRAINAGES
 - PROJECT BOUNDARY
 - CLEAN WATER DIVERSION CHANNELS
 - DIVERSION OF A STREAM (PIPE OR CULVERT)
 - RUNOFF COLLECTION CHANNELS
 - PAD RUNOFF COLLECTION CHANNELS
 - RECONSTRUCTED STREAM
 - PROPOSED ROAD
 - SEDIMENT COLLECTION BASINS
 - WETLAND AREA
 - TAILING BEACH
 - APPROXIMATE LIMITS OF RECLAIM POND
 - PIT RELATED ACTIVITIES
 - APPROXIMATE LIMITS OF PIT LAKE
 - PROPERTIES NOT CONTROLLED BY HALE

NOTES:

- THE LOCATIONS SHOWN ON THIS DESCRIPTION MAY NOT BE CHECKED AND MAY REPRESENT THE BEST JUDGMENT OF HALE AT THIS TIME.
- HALE HAS PROPOSED THAT WETLANDS AND STREAMS WHICH ARE NOT AUTHORIZED FOR DISTURBANCE WILL HAVE A BUFFER AREA TO BE MAINTAINED WITHIN WHICH ANY IMPACTS WILL BE APPROPRIATE TO THIS DESCRIPTION OF THE SITE FEATURES.

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY *Jeffrey H. [Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov. 5, 2014*
 PERMIT NO. *I-0001401*

1000 0 1000 2000 FEET

SM-601-16

HALE GOLD MINE
 2012 MINE PLAN

TSR: YEAR 14
 (END OF MINE LIFE)
 (RA12-G1-06-R)

DESIGNED BY: ZPR
 CHECKED BY: CAB
 DRAWN BY: ZPR
 APPROVED BY: JIM
 DATE: 12/12/12
 REVISED BY: [Blank]
 SHEET NO. T-5
 OF 0

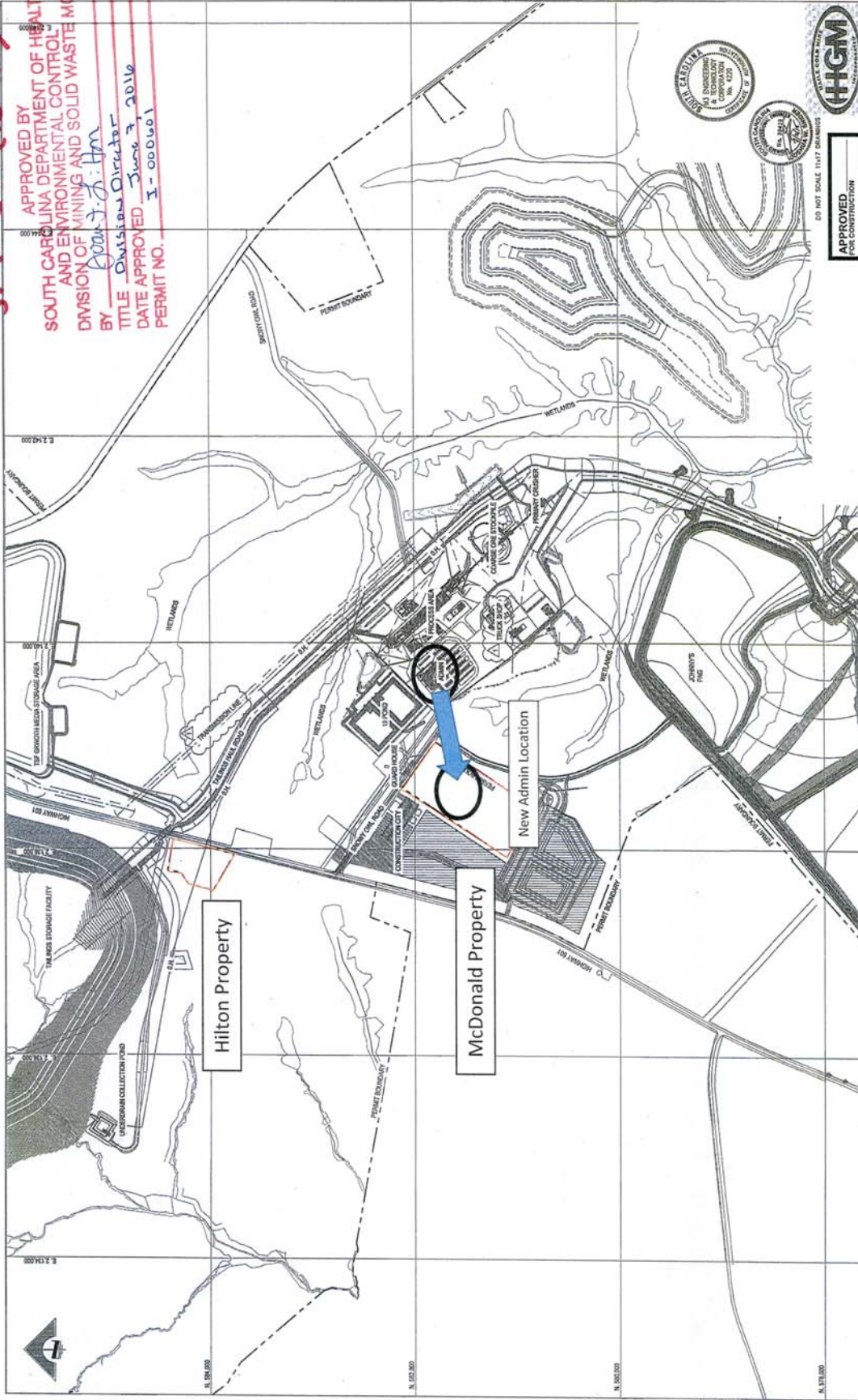
0 12/19/12 ISSUED FOR PERMITTING

DISCLAIMER
 AMEC PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF STANDARD ENGINEERING PRACTICES AND PROCEDURES. AMEC DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PRESENTED ON THIS DRAWING. THE USER OF THIS DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO AMEC.

amec

SM-601116-17

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY Paul J. Han
 TITLE Division Director
 DATE APPROVED June 7, 2016
 PERMIT NO. I-000661



DO NOT SCALE DRAWINGS

APPROVED FOR CONSTRUCTION

HAILE GOLD PROJECT
 HAILE GOLD PROJECT
 GENERAL STANDARDS
 CIVIL
 OVERALL SITE PLAN

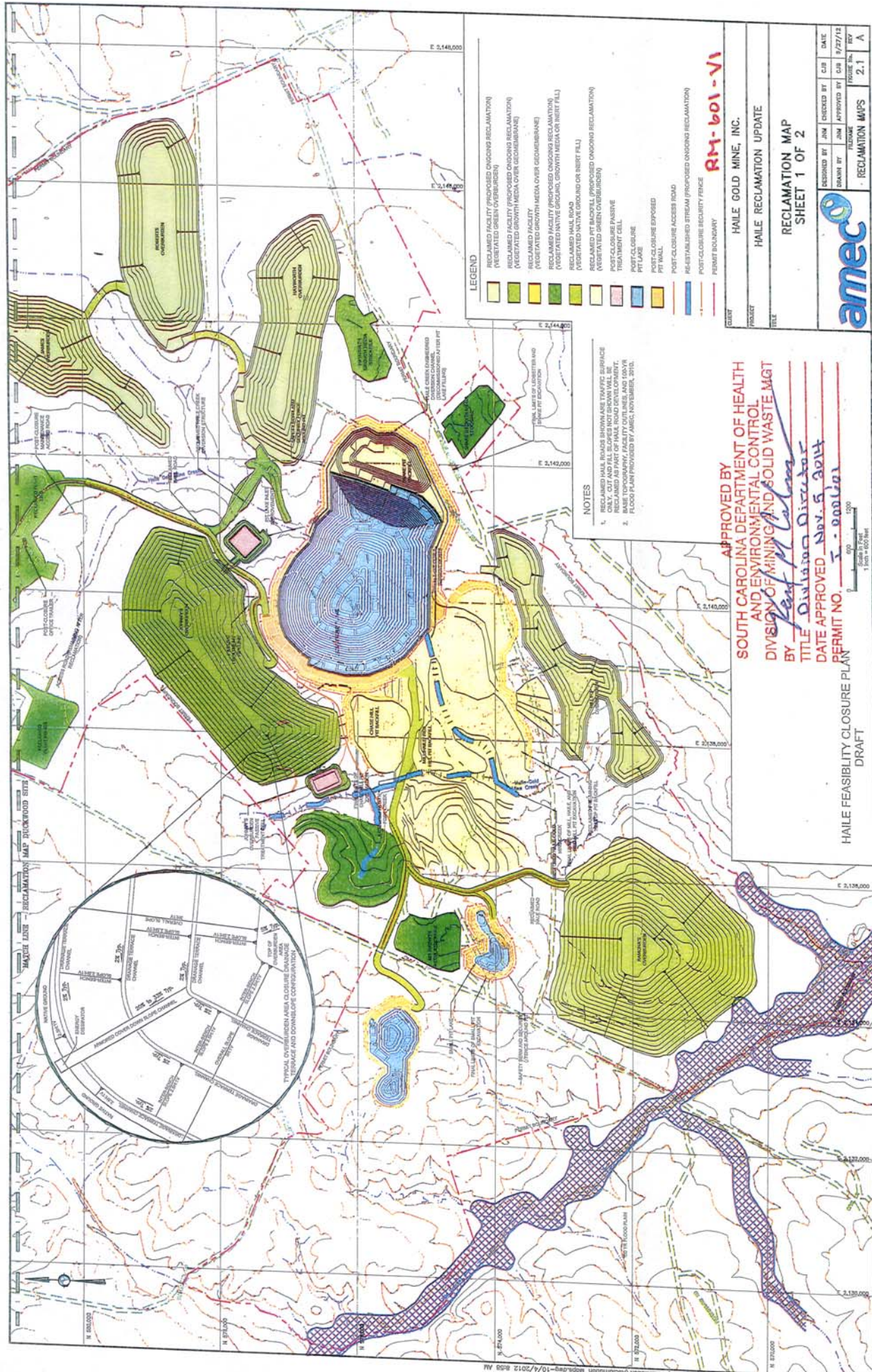


DATE	SCALE	BY	DATE	SCALE	BY
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14

NO.	DESCRIPTION	DATE	SCALE	BY	DATE	SCALE	BY
1	SOUTH CAROLINA CORP. SEAL & CATALOG CODED	JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
2	APPROVED FOR CONSTRUCTION	JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14

NO.	DESCRIPTION	DATE	SCALE	BY	DATE	SCALE	BY
1	SOUTH CAROLINA CORP. SEAL & CATALOG CODED	JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
2	APPROVED FOR CONSTRUCTION	JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14

DATE	SCALE	BY	DATE	SCALE	BY
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14
JAN 14	TLO	JAN 14	JAN 14	JAN 14	JAN 14



- LEGEND**
- RECLAIMED FACILITY (PROPOSED ONGOING RECLAMATION) (VEGETATED GREEN OVERBRIEN)
 - RECLAIMED FACILITY (PROPOSED ONGOING RECLAMATION) (VEGETATED GROWTH MEDIA OVER GEOSUBSTRATE)
 - RECLAIMED FACILITY (VEGETATED GROWTH MEDIA OVER GEOSUBSTRATE)
 - RECLAIMED FACILITY (PROPOSED ONGOING RECLAMATION) (VEGETATED NATIVE GRASS, GROWTH MEDIA ON INERT FILL)
 - RECLAIMED FACILITY (VEGETATED NATIVE GRASS ON INERT FILL)
 - RECLAIMED FACILITY (PROPOSED ONGOING RECLAMATION) (VEGETATED NATIVE GRASS ON INERT FILL)
 - POST-CLOSURE PASSIVE (VEGETATED GREEN OVERBRIEN)
 - TREATMENT CELL
 - PIT LAKE
 - POST-CLOSURE EXPOSED PIT WALL
 - POST-CLOSURE ACCESS ROAD
 - RE-ESTABLISHED STREAM (PROPOSED ONGOING RECLAMATION)
 - POST-CLOSURE SECURITY FENCE
 - PERMIT BOUNDARY

RM-601-VI

CLIENT	HAILE GOLD MINE, INC.
PROJECT	HAILE RECLAMATION UPDATE
TITLE	RECLAMATION MAP SHEET 1 OF 2
DESIGNED BY	JIM
CHECKED BY	CAR
DATE	1/27/12
DRAWN BY	JIM
APPROVED BY	JIM
FIGURE NO.	RECLAMATION MAPS 2.1
REV	A

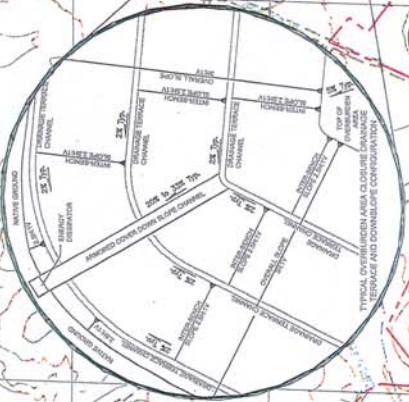


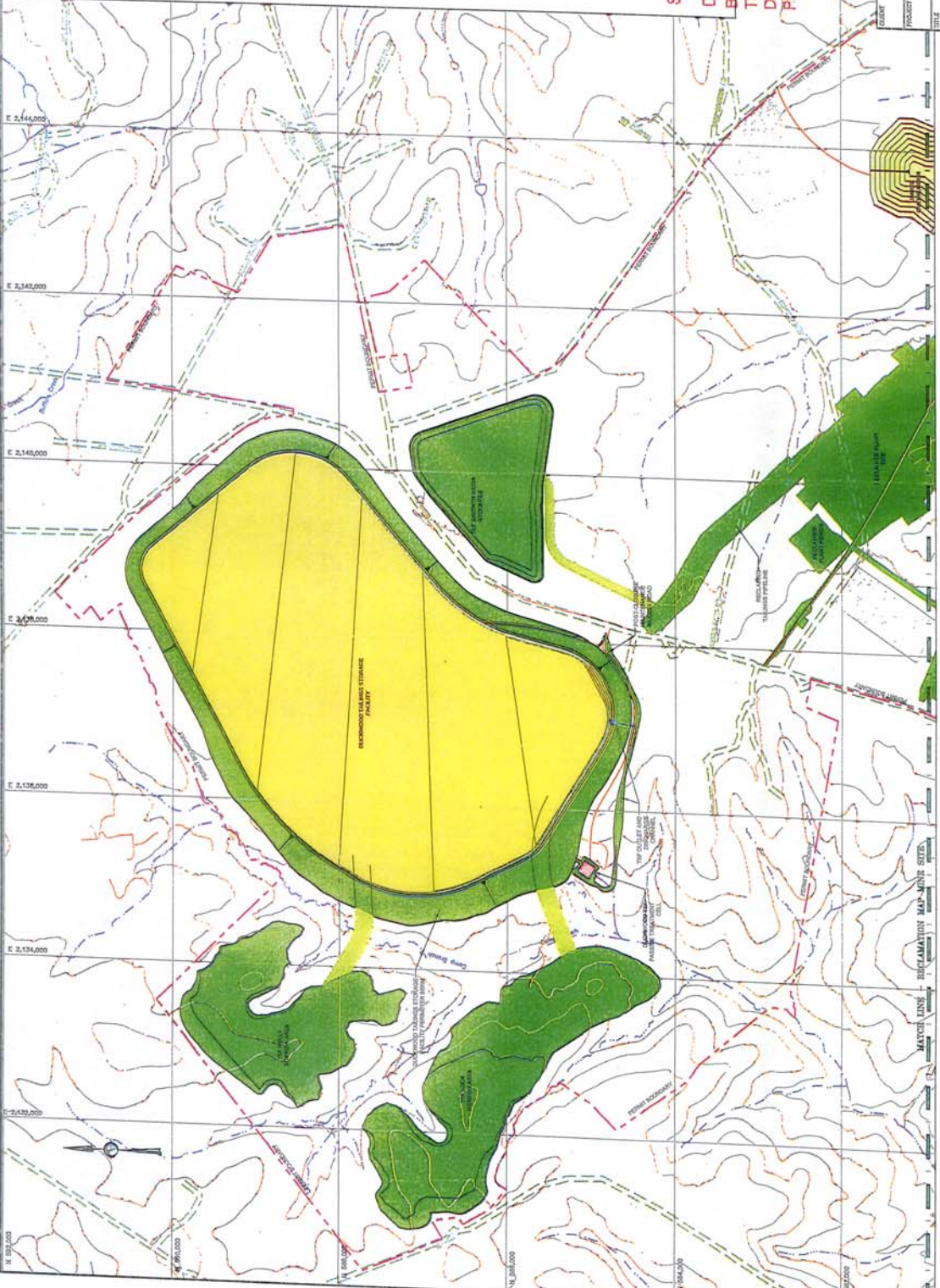
NOTES

- RECLAIMED HAILE ROADS BARRIERS ARE TRAFFIC SURFACE ONLY. CUT AND FILL SLOPES NOT SHOWN WILL BE RECLAIMED AS PART OF HAILE ROAD DEVELOPMENT. FLOOD PLAN PROVIDED BY AMEC, NOTEMBERIA, 2010.

APPROVED BY
SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL
DIVISION OF MINING AND SOLID WASTE MGT
 BY *[Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov. 5, 2014*
 PERMIT NO. *5-1000101*

HAILE FEASIBILITY CLOSURE PLAN
 DRAFT





LEGEND

[Light Green]	RECLAIMED FACILITY (PROPOSED ONGOING RECLAMATION) (VEGETATED GREEN OVERBURDEN)
[Yellow-Green]	RECLAIMED FACILITY (PROPOSED ONGOING RECLAMATION) (VEGETATED GROWTH MEDIA OVER CIRCUMFERENCE)
[Light Green]	RECLAIMED FACILITY (VEGETATED NATIVE GRASS/SHRUBS)
[Green]	RECLAIMED FACILITY (VEGETATED NATIVE GRASS/SHRUBS OVER CIRCUMFERENCE)
[Dark Green]	RECLAIMED NATIVE GRASS/SHRUBS (GROWTH MEDIA OR INERT FILL)
[Light Green]	RECLAIMED HAILE ROAD (VEGETATED NATIVE GRASS/SHRUBS OR INERT FILL)
[Green]	RECLAIMED PIT BACKFILL (PROPOSED ONGOING RECLAMATION) (VEGETATED GREEN OVERBURDEN)
[Light Green]	POST-CLOSURE PASTURE TREATMENT CELL
[Light Green]	POST-CLOSURE PIT WALL
[Light Green]	POST-CLOSURE EXPOSED PIT WALL
[Light Green]	POST-CLOSURE EXPOSED PIT FLOOR
[Red Dashed Line]	RE-ESTABLISHED STREAM (PROPOSED ONGOING RECLAMATION)
[Red Dashed Line]	POST-CLOSURE SECURITY FENCE
[Red Dashed Line]	PERMIT BOUNDARY

NOTES

1. RECLAIMED HAILE ROAD BROWN ARE TRAFFIC SURFACE ONLY. CUT AND FILL CLOSURES NOT SHOWN WILL BE BASE TOPOGRAPHY, FACILITY OUTLINES, AND 100 YR FLOOD PLAIN PROVIDED BY AMEC, NOVEMBER, 2012.

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY: *[Signature]*
 TITLE: *Division Director*
 DATE APPROVED: Nov 5, 2014
 PERMIT NO.: I - 000601

RM-601-V2

HAILE GOLD MINE, INC.

HAILE RECLAMATION UPDATE

RECLAMATION MAP
 SHEET 2 OF 2



DESIGNED BY	DATE
JUN	9/27/12

REVISION	DATE	BY
2.2		A



HAILE FEASIBILITY CLOSURE PLAN
 DRAFT

Schedule for Implementation of Conservation and Reclamation Practices

Feature	Pre	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	40+	50+	60+		
Other Facilities	MH Site																																			
	Water Treatment																																			
	TSF																																			
PAG Storage and Overburden Storage Areas	Holly																																			
	Hook																																			
	Johnny's PAG																																			
	601 OSA																																			
	Ramona OSA																																			
	Robert OSA																																			
	James OSA																																			
	Hayworth OSA																																			
	Hilltop OSA																																			
	OSA																																			
Pits	MH Zone Pit																																			
	Snake Pit																																			
	Halle Pit																																			
	Red Hill Pit																																			
	Ledbetter Pit**																																			
	Chase Pit																																			
	Champion Pit																																			
	Small Pit																																			
	Stewardship Monitoring																																			

Construction
Operating
Demolition
Material Removed
Reclamation and Monitoring*
Passive Cell Water Treatment Install/Replace
Facility Built
Receiving Material
Rehandle Low Grade Stockpile
Mining Begins
Mining Continues
Backfilling Occurs
Lake Filling
Surface and Ground Water Monitoring*

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY [Signature]
 TITLE Division Director
 DATE APPROVED Nov. 5, 2014
 PERMIT NO. I-000601

RM-601-V3

Note: For Champion and Small Pit Lakes, this is the time frame to reach 95 percent full.
 * Period of monitoring would be in accordance with South Carolina Department of Health and Environmental Control regulations.

Source: Haile 2012a (table data revised in 2013)
 ** Newfields, 2013 Pit Refilling Simulations, October 28



**PERMIT I-000601
REFERENCES**

1. **Haile Gold Mine Permit I-601 Modification Application** dated November 19, 2010
2. **Haile Gold Mine Permit I-601 Modification (Update)** dated December 26, 2012
3. **Draft Cultural Resources Management Plan, Haile Gold Mine, Lancaster County, South Carolina (USACE Permit No. SAC 1992-24112-4IA)** dated October 25, 2012
4. **Report of Feasibility Level Pit Slope Evaluation**, dated October 2012 and appended (Appendix P) to the 2010 Haile Gold Mine Permit I-601 Modification Application (Reference 1)
5. **Haile Gold Mine Tailing and Process Water Management Permitting Design Report** dated November 15, 2010 and appended (Appendix N) to the Haile Gold Mine Permit I-601 Modification Application (Reference 1)
6. **Haile Gold Mine, Inc. Duckwood Tailings Storage Facility Detailed Design Report** dated August 31, 2012. This document is an update to Appendix N to Reference 1
7. **Duckwood Tailings Storage Facility (TSF) Operation, Maintenance and Inspection Manual** dated August 31, 2012 and appended (Appendix F) to Reference 6
8. **Duckwood Tailings Storage Facility (TSF) Emergency Action Plan (EAP)** dated August 31, 2012 and appended (Appendix H) to Reference 6
9. **Haile Gold Mine Reclamation Plan** revised November 2013. This document was submitted under separate cover in support of Reference 2
10. **Draft Groundwater and Surface Water Monitoring Plan** dated September 2014
11. **Pit Lake Adaptive Management Plan** as submitted in Haile Gold Mine, Inc.'s June 9, 2014 correspondence from J. Pappas (Haile Gold Mine, Inc.) to A. Rowe (SC Department of Health and Environmental Control).
12. **Haile Gold Mine, Inc. Potentially Acid Generating Overburden Storage Area And Contact Water Ponds Detailed Design Report** dated September 2014
13. **Johnny's OSA Operation, Maintenance and Inspection Manual** dated September 2014 and appended (Appendix F) to Reference 12

Added pursuant to Modification 16-1

14. **Revised Haile Gold Mine Overburden Management Plan** revised February 2015
15. **Tailings Distribution Design Report** dated May 2015

APPENDIX A

MODIFICATIONS TO MINE PERMIT I-000601

NUMBER	ISSUANCE DATE	DESCRIPTION OF MODIFICATION (PA=Permitted Ac; AA=Affected Ac; FR = Reserves)
Issued	7/3/84	Heap leach operations, closure and reclamation
Mod 14-1	11/5/14	Modified to expand site and reopen. PA=4567ac., AA=2464 ac., FR=0.0ac., Buffer=2103ac
Revised	1/09/15	Revised pursuant to Settlement Agreement w/ Sierra Club regarding Docket No. 14-RFR-42. Interest bearing account increased from \$5,000,000 to \$10,000,000 (pages 1, 6, 17, 18, Appendix B Table BOND-601-V5)
Mod 16-1	6/07/16	Incorporated the McDonald and Hilton tract increasing permitted acreage from 4,567 ac to 4590 ac. Relocate administration building to McDonald track and reconfigure Run-of-Mill Pad.

APPENDIX B

FINANCIAL ASSURANCE BONDING TABLES & MAPS

BOND-601-V1	HGM Cost Table- Stage 1 Construction	Received 10/14/14
BOND-601-V2	HGM Stage 1 Construction Map	Received 10/14/14
BOND-601-V3	HGM Cost Table- Stage 2 Construction	Received 10/14/14
BOND-601-V4	HGM Stage 2 Construction Map	Received 10/14/14
BOND-601-V5(rev)	HGM Cost Table (Preproduction through Year 100)	Received 1/09/15
BOND-601-V6	HGM Preproduction Year Map	Received 12/28/12

**Romarco Minerals - Haile Gold Mine
Reclamation & Closure Cost Estimates
Cost Breakdown Table (Stage 1 Only)**

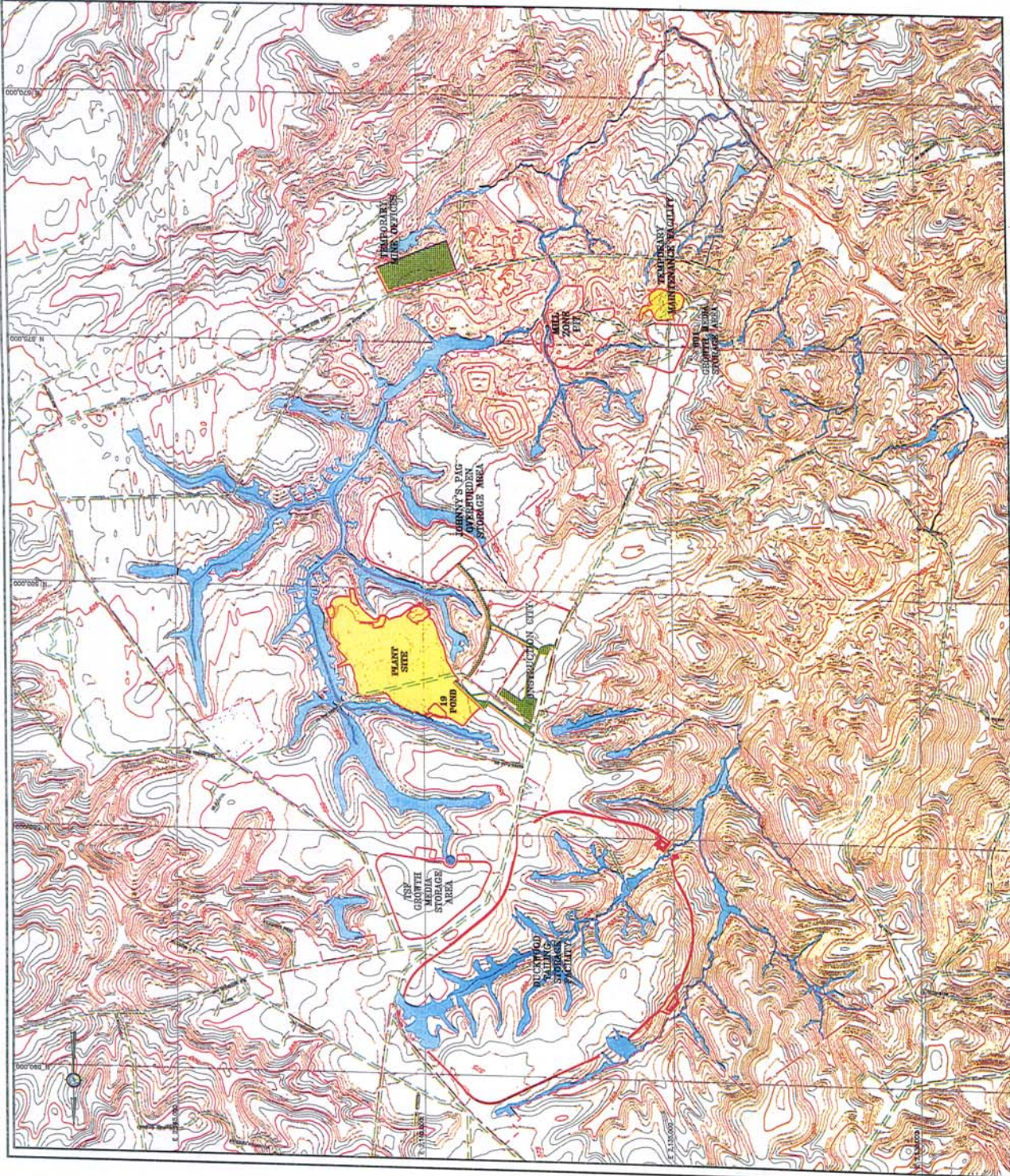
Bond-601-V1

Facility	Item	Quantity	Units	Rate	Bonded Cost Stage 1
Open Pits					
Mill Zone Pit	Revegetate Stormwater Controls	9	ac	\$ 3,000.00	\$ 27,300
	Silt Fence	8,500	ft	\$ 3.50	\$ 29,750
	Indirect Costs				\$ 1,638
	Contingency				\$ 3,423
	Subtotal				
OSAs					
Johnny's PAG	Revegetate Stormwater	9	ac	\$ 3,000.00	\$ 27,900
	Silt Fence	3,800	ft	\$ 3.50	\$ 13,300
	Indirect Costs				\$ 2,472
	Contingency				\$ 2,472
	Subtotal				
Growth Media Storage Areas					
601 GMS	Revegetate Stormwater	4	ac	\$ 3,000.00	\$ 11,100
	Indirect Costs				\$ 666
	Contingency				\$ 666
	Subtotal				
TSF GMS	Revegetate Stormwater	8	ac	\$ 3,000.00	\$ 22,800
	Indirect Costs				\$ 1,368
	Contingency				\$ 1,368
	Subtotal				
Roads					
Service Roads (30 feet wide) and culverts		* Stormwater controls included in acres			
	TSF Sed Service Road - Scarify	14	ac	\$ 184.33	\$ 2,581
	TSF Sed Service Road - Revegetate	14	ac	\$ 3,000.00	\$ 42,000
	TSF Sed Service Road - Silt Fence	20,000	ft	\$ 3.50	\$ 70,000
	TSF GM Service Road - Scarify	5	ac	\$ 184.33	\$ 922
	TSF GM Service Road - Revegetate	5	ac	\$ 3,000.00	\$ 15,000
	TSF GM Service Road - Silt Fence	6,700	ft	\$ 3.50	\$ 23,450
	JPAG Service Road - Scarify	6	ac	\$ 184.33	\$ 1,106
	JPAG Service Road - Revegetate	6	ac	\$ 3,000.00	\$ 18,000
	JPAG Service Road - Silt Fence	8,100	ft	\$ 3.50	\$ 28,350
	Construction City/JPAG Service Road - Scarify	4	ac	\$ 184.33	\$ 737
	Construction City/JPAG Service Road - Revegetate	4	ac	\$ 3,000.00	\$ 12,000
	Construction City/JPAG Service Road - Silt Fence	5,200	ft	\$ 3.50	\$ 18,200
	601 GM Service Road - Scarify	2	ac	\$ 184.33	\$ 369
	601 GM Service Road - Revegetate	2	ac	\$ 3,000.00	\$ 6,000
	601 GM Service Road - Silt Fence	3,100	ft	\$ 3.50	\$ 10,850
	Indirect Costs				\$ 14,974
	Contingency				\$ 14,974
	Subtotal				\$ 279,512
NPDES System Components					
19 Pond	Revegetate/Stormwater	7	ac	\$ 3,000.00	\$ 20,100
	Indirect Costs				\$ 1,206
	Contingency				\$ 1,206
	Subtotal				\$ 22,512
Events Pond	Revegetate/Stormwater	32	ac	\$ 3,000.00	\$ 94,500
	Indirect Costs				\$ 5,670
	Contingency				\$ 5,670
	Subtotal				\$ 105,840
TSF Impoundment					

	Revegetate Stormwater	26 ac	\$ 3,000.00 ac	\$ 78,000
	Silt Fence	15,400 ft	\$ 3.50 ft	\$ 53,900
	Indirect Costs			\$ 7,914
	Contingency			\$ 7,914
	Subtotal			\$ 147,728
Plant Site, Associated Infrastructure, and Other:				
WWTP				
	Revegetate Disturbed Area and Revegetate Stormwater	15 ac	\$ 3,000.00 ac	\$ 45,300
	Indirect Costs			\$ 2,718
	Contingency			\$ 2,718
	Subtotal			\$ 50,736
Plant Site				
	Revegetate/Stormwater	51 ac	\$ 3,000.00 ac	\$ 152,100
	Silt Fence	14,400 ft	\$ 3.50 ft	\$ 50,400
	Indirect Costs			\$ 9,126
	Contingency			\$ 12,150
	Subtotal			\$ 223,776
Reclaim Construction City/Laydown Area				
	Revegetate	9 ac	\$ 3,000.00 ac	\$ 27,000
	Silt Fence	7,800 ac	\$ 3.50 ac	\$ 27,300
	Indirect Costs			\$ 3,258
	Contingency			\$ 3,258
	Subtotal			\$ 60,816
Reclaim Guard Trailer Area				
	Revegetate	1 ac	\$ 3,000.00 ac	\$ 3,000
	Indirect Costs			\$ 180
	Contingency			\$ 180
	Subtotal			\$ 3,360
Temporary Mine Offices (Beverly Hills)				
	Revegetate	20 ac	\$ 3,000.00 ac	\$ 60,000
	Silt Fence	4,300 ft	\$ 3.50 ft	\$ 15,050
	Indirect Costs			\$ 3,600
	Contingency			\$ 4,503
	Subtotal			\$ 83,153
Temporary Maintenance Facility				
	Revegetate	14 ac	\$ 3,000.00 ac	\$ 42,000
	Conex Removal	4 ea	\$ 400.00 ea	\$ 1,600
	Silt Fence	3,100 ft	\$ 3.50 ft	\$ 10,850
	Dozer Push	12,000 cy	\$ 0.39 cy	\$ 4,680
	Indirect Costs			\$ 2,616
	Contingency			\$ 2,616
	Subtotal			\$ 64,362
Depressurization Well Abandonment				
	Abandon wells and piezometers	8 ea	\$ 2,790.00 ea	\$ 22,320
	Indirect Costs			\$ 1,339
	Contingency			\$ 1,339
	Subtotal			\$ 24,998
Temporary Power Poles				
	Remove Power Poles	41 ea	\$ 150.00 ea	\$ 6,150
	Indirect Costs			\$ 369
	Contingency			\$ 369
	Subtotal			\$ 6,888
	Total			\$ 1,219,904

page 2 of 2

APPROVED BY
SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL
DIVISION OF MINING AND SOLID WASTE MGT
BY [Signature]
TITLE Division Director
DATE APPROVED Nov 5, 2014
PERMIT NO. I-000601



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR EL. FEET
 - EXISTING ROADS
 - WATERS OF THE US
 - PROPERTY NOT OWNED BY HALE
 - PROJECT BOUNDARY
 - STORMWATER CONTROLS INSTALLED PER SHREPP
 - ARCH SITE JULIAGA LOCUS 1
 - ALL HATCHING BELOW ASSUMES AREA HAS APPROPRIATE STORMWATER CONTROLS IN PLACE PER SHREPP AND HAS BEEN THIMBERED, CLEARED AND GRUBBED.
 - THIMBERED, CLEARED, AND GRUBBED
 - GRADING

NOTES:

1. THIS FRAME INDICATES THE LOCATION OF MINE FEATURES AFTER THE MINING PERMIT IS ISSUED AND BEFORE THE ROAD IS ISSUED.
2. THE LOCATIONS SHOWN ON THIS DEPICTION MAY NOT BE EXACT AND MAY CHANGE SLIGHTLY DURING OPERATIONS, BUT REPRESENT THE BEST JUDGMENT OF HALE AT THIS TIME.
3. HALE HAS PROPOSED THAT WETLANDS AND STREAMS WHICH ARE NOT AUTHORIZED FOR DISTURBANCE AND ARE NOT "DRAINAGE" WETLANDS OR "DRAINAGE" WETLANDS, WHICH MAY NOT BE APPARENT ON THIS DEPICTION OF THE SITE FEATURES.

Reference:
 Topographic information used in referenced data given to AMD from Hale Gold Mine, Inc. (HGM) project boundary provided by HGM 04/04/2012.
 HGM 04/04/2012.
 HGM 04/04/2012.
 HGM 04/04/2012.
 HGM 04/04/2012.
 HGM 04/04/2012.

APPROVED BY
SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL
DIVISION OF MINING AND SOLID WASTE MGT
 BY *[Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov 5 2014*
 PERMIT NO. *T-000601*

BOND - 601 - V2

PROJECT	HAILE GOLD MINE		
TITLE	LANCASTER COUNTY, SOUTH CAROLINA		
	HAILE GOLD MINE		
	STAGE ONE BOND (PRE DEC 1ST)		
	GENERAL LAYOUT		
DESIGNED BY	CF	CHECKED BY	CS
DRAWN BY	CF	APPROVED BY	CS
DATE	10/13/14	PERMIT NO.	1
		BOND NO.	0



**Romarco Minerals - Haile Gold Mine
Reclamation & Closure Cost Estimates
Cost Breakdown Table (Stage 2 Only)**

BOND - 601 - V3

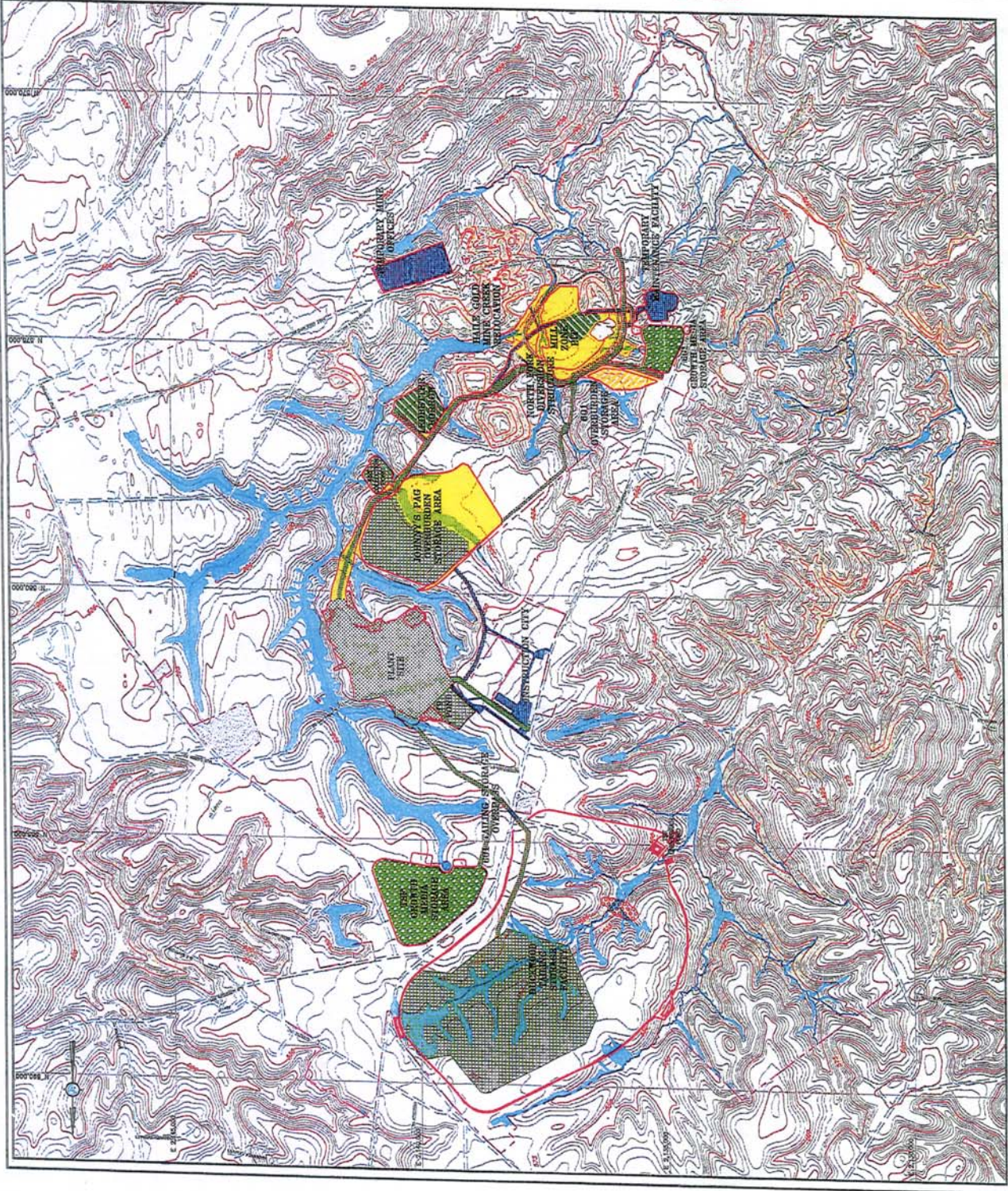
Facility	Item	Quantity	Units	Rate	Bonded Cost Stage 2
Open Pits					
	Mill Zone Pit				
	Revegetate	55	ac	\$ 3,000.00	\$ 165,817
	Revegetate Pit Sed Pond Area	2	ac	\$ 3,000.00	\$ 6,000
	Stream Restoration	1,943	lf	\$ 225.00	\$ 437,213
				Indirect Costs	\$ 36,542
				Contingency	\$ 36,542
				Subtotal	\$ 682,114
	Ledbetter Pit (Borrow area only)				
	Revegetate Stormwater Controls	3	ac	\$ 3,000.00	\$ 10,200
	Revegetate	16	ac	\$ 3,000.00	\$ 46,800
	RipRap Stormwater Spillway (Import and Place Riprap)	40	cy	\$ 15.03	\$ 601
	Notch Outlet (Channel Excavation)	500	cy	\$ 0.61	\$ 305
	Silt Fence	2,900	ft	\$ 3.50	\$ 10,150
				Indirect Costs	\$ 4,083
				Contingency	\$ 4,083
				Subtotal	\$ 76,223
OSAs					
	Johnny's PAG				
	Revegetate Phase 1a	53	ac	\$ 3,000.00	\$ 81,620
	Revegetate Phases 1b and 1c	55	ac	\$ 3,000.00	\$ 165,000
	Remove buried Groundwater pipes (Remove and Demo Pipeline)	1,800	lf	\$ 1.75	\$ 3,150
	Reconnect Upstream channel (Stream Restoration)	100	lf	\$ 225.00	\$ 22,500
	Remove ByPass Channel (Dozer Push)	11,671	cy	\$ 0.39	\$ 4,552
				Indirect Costs	\$ 16,609
				Contingency	\$ 16,609
				Subtotal	\$ 310,040
	601 OSA				
	Revegetate Stormwater	2	ac	\$ 3,000.00	\$ 6,231
	Revegetate	8	ac	\$ 3,000.00	\$ 24,995
				Indirect Costs	\$ 1,874
				Contingency	\$ 1,874
				Subtotal	\$ 34,973
Growth Media Storage Areas					
	601 GMS				
	Scarify	15	ac	\$ 184.33	\$ 2,765
	Revegetate	15	ac	\$ 3,000.00	\$ 45,000
				Indirect Costs	\$ 2,866
				Contingency	\$ 2,866
				Subtotal	\$ 53,497
	TSF GMS				
	Scarify	62	ac	\$ 184.33	\$ 11,428
	Revegetate	62	ac	\$ 3,000.00	\$ 186,000
				Indirect Costs	\$ 11,846
				Contingency	\$ 11,846
				Subtotal	\$ 221,120
Surface Water Management					
	North Fork Diversion				
	Revegetate Stormwater	1	ac	\$ 3,000.00	\$ 3,000
	Stream Restoration	1,124	lf	\$ 225.00	\$ 252,790
	Remove Culvert and Regrade	658	lf	\$ 11.40	\$ 7,501
	Remove and Demo Pipeline	1,500	ft	\$ 1.75	\$ 2,625
	Revegetate	2	ac	\$ 3,000.00	\$ 6,000
				Indirect Costs	\$ 16,315
				Contingency	\$ 16,315
				Subtotal	\$ 304,546

HGM Crk Diversion							
	Revegetate Stormwater	6	ac	\$	3,000.00	ac	\$ 18,000
	Misc Rework (Channel Excavation + Dozer Push)	5,000	cy	\$	1.00	cy	\$ 5,000
	Stream Restoration (original creek)	250	lf	\$	225.00	lf	\$ 56,250
	Revegetate	6	ac	\$	3,000.00	ac	\$ 18,000
	Silt Fence	4,200	ft	\$	3.50	ft	\$ 14,700
	Indirect Costs						\$ 6,717
	Contingency						\$ 6,717
	Subtotal						\$ 125,384
Roads							
	JPAG Pipeline/Depres. Service Road - Scarify	20	ac	\$	184.33	ac	\$ 3,687
	JPAG Pipeline/Depres. Service Road - Revegetate	20	ac	\$	3,000.00	ac	\$ 60,000
	JPAG Pipeline/Depres. Service Road Culvert	1,205	lf	\$	11.40	lf	\$ 13,737
	JPAG Pipeline/Depres. Service Road - Stream Rest.	354	ft	\$	225.00	ft	\$ 79,644
	JPAG Pipeline/Depres. Service Road -Silt Fence	19,600	ft	\$	3.50	ft	\$ 68,600
	Indirect Costs						\$ 13,540
	Contingency						\$ 13,540
	Subtotal						\$ 252,748
Construction Roads							
							* Stormwater controls included in acres
	West MZ Construction Road - Scarify	2	ac	\$	184.33	ac	\$ 369
	West MZ Construction Road - Revegetate	2	ac	\$	3,000.00	ac	\$ 6,000
	West MZ Construction Road - Silt Fence	3,900	ft	\$	3.50	ft	\$ 13,650
	East MZ Construction Road - Scarify	4	ac	\$	184.33	ac	\$ 737
	East MZ Construction Road - Revegetate	4	ac	\$	3,000.00	ac	\$ 12,000
	East MZ Construction Road - Silt Fence	1,700	ft	\$	3.50	ft	\$ 5,950
	East MZ Const Rd Culvert	171	lf	\$	11.40	lf	\$ 1,949
	Ledbetter Const. Road - Scarify	2	ac	\$	184.33	ac	\$ 369
	Ledbetter Const. Road - Revegetate	2	ac	\$	3,000.00	ac	\$ 6,000
	Ledbetter Const. Road - Silt Fence	800	ft	\$	3.50	ft	\$ 2,800
	Diversion Road - Scarify	1	ac	\$	184.33	ac	\$ 184
	Diversion Road - Revegetate	1	ac	\$	3,000.00	ac	\$ 3,000
	Diversion Road Culvert	142	lf	\$	11.40	lf	\$ 1,619
	Diversion Road - Silt Fence	1,000	ft	\$	3.50	ft	\$ 3,500
	NF Construction Road - Scarify	1	ac	\$	184.33	ac	\$ 184
	NF Construction Road - Revegetate	1	ac	\$	3,000.00	ac	\$ 3,000
	NF Construction Road - Silt Fence	1,000	ft	\$	3.50	ft	\$ 3,500
	TSF Construction Road - Scarify	10	ac	\$	184.33	ac	\$ 1,843
	TSF Construction Road - Revegetate	10	ac	\$	3,000.00	ac	\$ 30,000
	TSF Construction Road - Silt Fence	10,900	ft	\$	3.50	ft	\$ 38,150
	TSF Constr Road Culvert	400	lf	\$	11.40	lf	\$ 4,560
	TSF Constr Road Stream Restoration	400	lf	\$	225.00	lf	\$ 90,000
	TSF GMS Construction Rd - Scarify	3	ac	\$	184.33	ac	\$ 553
	TSF GMS Construction Road - Revegetate	3	ac	\$	3,000.00	ac	\$ 9,000
	TSF GMS Construction Road - Silt Fence	2,900	ft	\$	3.50	ft	\$ 10,150
	Indirect Costs						\$ 14,944
	Contingency						\$ 14,944
	Subtotal						\$ 278,956
Haul Roads							
	601 to Pads Haul Road - Scarify	19	ac	\$	184.33	ac	\$ 3,502
	601 to Pads Haul Road - Revegetate	19	ac	\$	3,000.00	ac	\$ 57,000
	601 to Pads Culvert (included in NF div)	0	lf	\$	11.40	lf	\$ -
	601 to Pads Road Stream Restoration (all in NF Div)	0	lf	\$	225.00	lf	\$ -
	601 to Pads Road - Silt Fence	7,200	ft	\$	3.50	ft	\$ 25,200
	601 GM to Intersection Haul Road - Scarify	4	ac	\$	184.33	ac	\$ 737
	601 GM to Intersection Haul Road - Revegetate	4	ac	\$	3,000.00	ac	\$ 12,000
	601 GM to Intersection Haul Road - Silt Fence	2,500	ft	\$	3.50	ft	\$ 8,750
	Pads to Crusher Haul Road - Scarify	28	ac	\$	184.33	ac	\$ 5,161
	Pads to Crusher Haul Road - Revegetate	28	ac	\$	3,000.00	ac	\$ 84,000
	Pads to Crusher Road culvert	1,107	lf	\$	11.40	lf	\$ 12,620
	Pads to Crusher Road Stream Restoration	420	lf	\$	225.00	lf	\$ 94,500
	Pads to Crusher Road - Silt Fence	10,500	ft	\$	3.50	ft	\$ 36,750
	Ramona Haul Road - Scarify	8	ac	\$	184.33	ac	\$ 1,475
	Ramona Haul Road - Revegetate	8	ac	\$	3,000.00	ac	\$ 24,000
	Ramona Haul Road - Silt Fence	3,800	ft	\$	3.50	ft	\$ 13,300
	Indirect Costs						\$ 22,740
	Contingency						\$ 22,740
	Subtotal						\$ 424,475
Snowy Owl							
	Revegetate	4	ac	\$	3,000.00	ac	\$ 13,013

				Indirect Costs				\$	781
				Contingency				\$	781
				Subtotal				\$	14,575
NPDES System Components									
19 Pond									
				Fill in excavation	115,500	cy	\$	2.26	cy \$ 261,030
				Indirect Costs				\$	15,662
				Contingency				\$	15,662
				Subtotal				\$	292,354
465 Pond									
				Fill in excavation	125,000	cy	\$	2.26	cy \$ 282,500
				Revegetate/Stormwater	9	ac	\$	3,000.00	ac \$ 27,000
				Indirect Costs				\$	18,570
				Contingency				\$	18,570
				Subtotal				\$	346,640
Events Pond									
				Fill in excavation	8,170		\$	2.26	cy \$ 18,464
				Indirect Costs				\$	1,108
				Contingency				\$	1,108
				Subtotal				\$	20,680
Pipelines									
				Demo HDPE pipeline (MZ Pit to 19 Pond)	4,800	ft	\$	1.75	ft \$ 8,400
				Demo HDPE pipeline (465 to 19 Pond)	4,200	ft	\$	1.75	ft \$ 7,350
				Demo HDPE pipeline (WWTP to 003)	3,950	ft	\$	1.75	ft \$ 6,913
				Indirect Costs				\$	1,360
				Contingency				\$	1,360
				Subtotal				\$	25,382
TSF Impoundment									
				Remove Coffor Dam	11,000	cy	\$	0.39	cy \$ 4,290
				Stream Restoration	5,200	lf	\$	225.00	lf \$ 1,170,000
				Revegetate	198	ac	\$	3,000.00	ac \$ 594,000
				Indirect Costs				\$	106,097
				Contingency				\$	106,097
				Subtotal				\$	1,980,485
Plant Site, Associated Infrastructure, and Other									
WWTP									
				Rubilize concrete slab for WWTP (Concrete Demolition)	514	CY	\$	8.00	CY \$ 4,112
				Bury concrete in place (Import Soil and LGB push)	514	Cy	\$	2.26	Cy \$ 1,162
				Indirect Costs				\$	316
				Contingency				\$	316
				Subtotal				\$	5,906
Depressurization Well Abandonment									
				Demo Depressurization Lines	15,351	ft	\$	1.75	ft \$ 26,864
				Indirect Costs				\$	1,612
				Contingency				\$	1,612
				Subtotal				\$	30,088
601 Tailing Storage Overpass									
				Remove Bridge Supports	1	ls	\$	64,680.00	ea \$ 64,680
				Indirect Costs				\$	3,881
				Contingency				\$	3,881
				Subtotal				\$	72,442
				Total				\$	5,552,626

page 3 of 3

APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY [Signature]
 TITLE Division Director
 DATE APPROVED Nov 5 2014
 PERMIT NO. I-000601



LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL. FEET
- EXISTING ROADS
- 601 OVERPASS CONSTRUCTED WITHOUT RAAPS
- WATERS OF THE US
- PROJECT BOUNDARY
- PROPERTY NOT OWNED BY HAILE
- ARCH SITE 304864 LOCUS 1
- STORMWATER CONTROLS INSTALLED PER SWPPP

ALL HATCHING BELOW ASSUMES AREA HAS APPROPRIATE STORMWATER CONTROLS IN PLACE PER SWPPP AND HAS BEEN THINNEED, COATED AND CRUSHED.

- THINNEED, CLEARED, AND CRUSHED
- GRASSING
- EXCAVATION OCCURRING
- GRASSING CONTINUES WITH UNDERGROUND UTILITIES INSTALLATION
- RECEIVING GROWTH MEDIA
- OSM READY TO RECEIVE MATERIAL
- CORFER DAM INSTALLATION
- EARTHWORK COMPLETE

NOTES:

1. HATCHING INDICATES THE LOCATION OF MINE FEATURES 90 DAYS AFTER THE ROAD IS ISSUED. IF A MINE FEATURE COVERS AN EXISTING FEATURE, BE IT A ROAD OR WETLAND, IT IS CONSIDERED DIRECTLY IMPACTED. WETLANDS ARE SHOWN UNDER MINE FEATURES FOR REFERENCE.
2. THE LOCATIONS SHOWN ON THIS DEPICTION MAY NOT BE EXACT AND MAY VARY SLIGHTLY FROM THE ORIGINAL DATA, BUT REPRESENT THE BEST JUDGMENT OF HAILE AT THIS TIME.
3. HAILE HAS PROPOSED THAT WETLANDS AND STREAMS WHICH ARE NOT AUTHORIZED FOR DISTURBANCE WILL HAVE A BUFFER AREA OF APPROXIMATELY 50 FEET, WHICH MAY NOT BE APPARENT ON THIS DEPICTION OF THE SITE FEATURES.

Reference: Topographic information used is contained solely in the AEC2 from Haile Gold Mine, Inc. and USGS data. The data was prepared by the project boundary located by 10/24/02/2012. The data was used as a reference with the integrity of the project boundary provided by Ecological Resources Consultants (ERC) in August 2012.

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AND ENVIRONMENTAL CONTROL
DIVISION OF MINING AND SOLID WASTE MGMT
 BY [Signature]
 TITLE Division Director
 DATE APPROVED Nov 5, 2014
 PERMIT NO. I - 0006601
BOND - 601 - V4

PROJECT		HAILE GOLD MINE	
LOCATION		LANCASTER COUNTY, SOUTH CAROLINA	
TITLE		HAILE GOLD MINE STAGE TWO BOND (90 DAYS POST DEC 1ST) GENERAL LAYOUT	
DESIGNED BY	CF	CHECKED BY	CS
DRAWN BY	CF	APPROVED BY	CS
DATE	10/15/14	DATE	
RELEASE		PERMIT NO.	1
REV	0	REV	0



BOND-601-V5

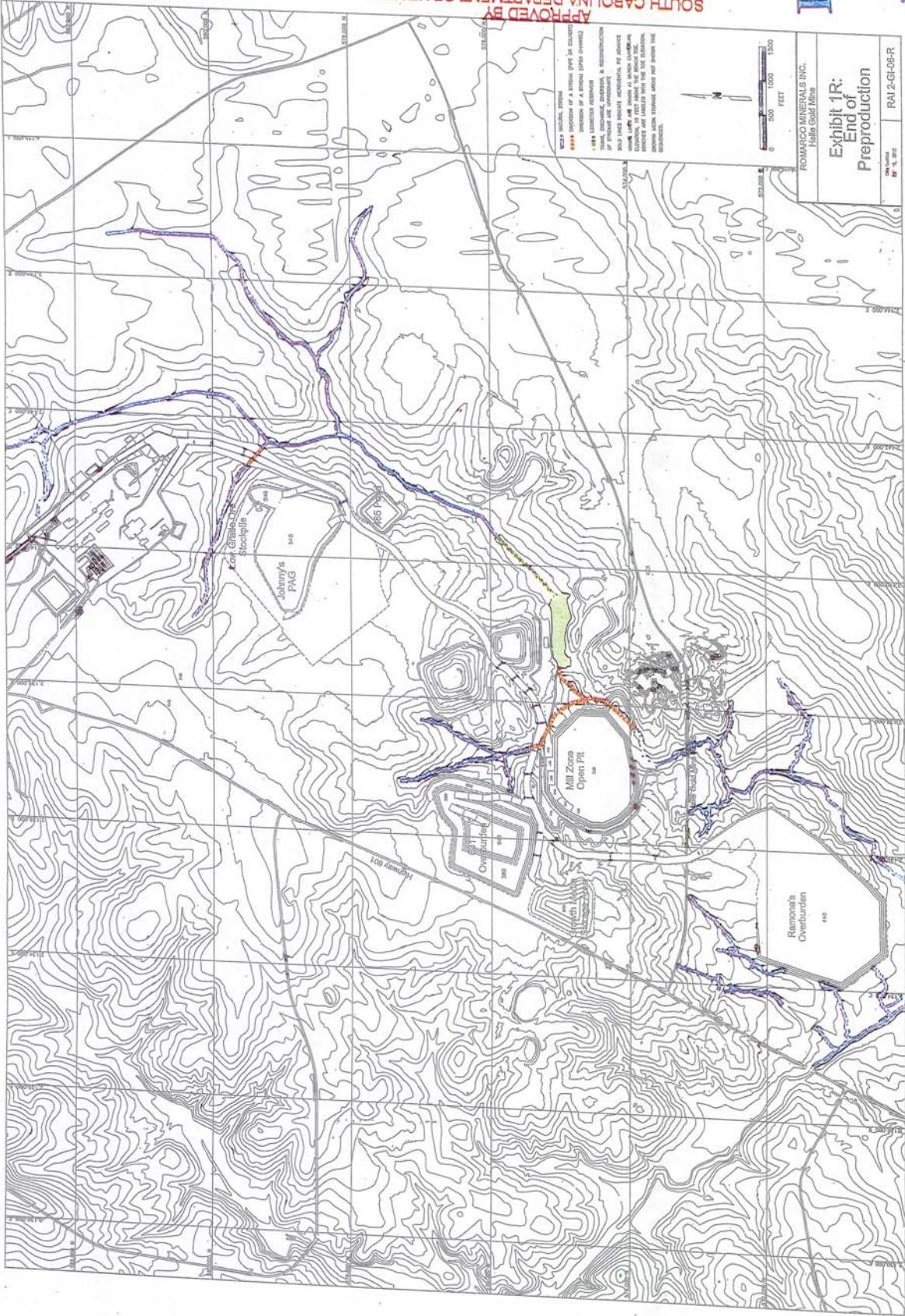
**Romarco Minerals - Haile Gold Mine
Reclamation and Closure Cost Estimates
Posted Assurance Amount Summary Table --- Modified January 9, 2015**



Assurance Annual Breakdown (thousand \$)

Facility	Assurance (thousand \$)	Year Operations Begin	PP	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10	YR 11	YR 12	YR 13	YR 14	YR 15	YR 16	YR 17	YR 18	YR 19	YR 20
Total Financial Assurance Amount (Bond plus Trust)	65,000			3,766	3,774	6,183	8,737	800	932	4,724	1,549	800	1,005	800	800	200							
Bond	55,000			2,966	3,174	5,333	7,547		132	3,954	1,149		205										
Open Pits																							
Mill Zone PR	289		PP																				
Haile PR	229		PP		239																		
Red Hill PR	205		PP			205																	
Leadbetter PR (Earthworks)	205		PP			51																	
Snake PR (Earthworks)	205		PP																				
Chase PR	132		PP						132														
Champion PR (Earthworks)	1		PP																				
Small PR (Earthworks)	2		PP																				
Overburden areas																							
Johnny 2 PMS	9,072		Multiple Phases				3,770																
Johnny 2 PMS Water Management	16		PP																				
601 OSA	219		PP																				
Alumina OSA	1,038		PP																				
Harwood OSA	579		PP			579																	
Harwood OSA	420		PP			420																	
Harwood OSA	445		PP																				
Robert OSA	524		PP																				
Site Surface Water Management																							
Stormwater and contact water controls	189		PP																				
Re-establish Drainages	1,040		PP																				
ISF																							
ISF Impoundment	36,160		Multiple Phases			1,083				1,057													
ISF Outlet Pitches	103		Multiple Phases		7																		
ISF Downwaters	9		Multiple Phases		1																		
Mill Site and Associated Infrastructure																							
Demande Plant and Mill and Water Treatment Plant	773		PP																				
Reclaim Mill Site	305		PP																				
Service Conduits/Roads	401		PP																				
Roads, Powerlines and Other Facilities																							
Remove final floods	366		PP																				
Powerlines	214		PP																				
Pipelines	140		PP																				
ISMAC (Noble Stockpile and Brexton Areas)	895		PP																				
ISMAC (Noble Stockpile and Brexton Areas)	57		PP			57																	
Wall Abandonment	166		PP																				
Passive Treatment System Construction																							
IPAG Passive Cell Construction	915		PP																				
ESF Passive Cell Construction	551		PP																				
Wastewater treatment (IPAG & ESF)	690		PP																				
IPAG Wastewater treatment	8,072		PP																				
ESF Wastewater treatment	2,603		PP																				
Operational Contingency																							
South PR Wall Grading (Year 7 Scenario)			PP																				
Time Addition to South PR (Year 7 Scenario)			PP																				
Closure (11/97)																							
Mine Site Closure Maintenance and Monitoring	1,345		PP																				
ISF Site Closure Maintenance and Monitoring	4,177		PP																				
Leadbetter PR Lake	203		PP																				
Small PR Lake	955		PP																				
Champion PR Lake	64		PP																				
Maintenance and Monitoring Post Closure Trust																							
	10,000		PP																				

Note 1: Leadbetter PR Lake (LOM Item) is 11, 200 tons. If mining ceases in Year 7, Leadbetter only needs 7,700 tons of lime. South PR is estimated to need 3,100 tons of lime in Year 7, so the excess from Leadbetter plus moving up the bonding timing for Lime production for Champion PR is adequate to cover the South PR lime needs.



APPROVED BY
 SOUTH CAROLINA DEPARTMENT OF HEALTH
 AND ENVIRONMENTAL CONTROL
 DIVISION OF MINING AND SOLID WASTE MGT
 BY *[Signature]*
 TITLE *Division Director*
 DATE APPROVED *Nov 5 2014*
 PERMIT NO. *I-000601*
BOND-601-V6

RECEIVED

DEC 2 6 2512
 DIVISION OF MINING
 SOLID WASTE MGT
 BLA/WM

ROMANOS MINERALS INC.
 Hahn Coal Mine
 Exhibit 4R:
 End of
 Preproduction
 No. 100
 RA 2-G-06-R