February 20, 2020

Chris Wallace
Hecla Greens Creek Mining Company
3000 Vintage Blvd, Suite 105
Juneau, Alaska 99801

Subject: Waste Management Permit 2020DB0001, Hecla Greens Creek Mining Company

Dear Mr. Wallace:

Alaska Department of Environmental Conservation has completed its evaluation of your Waste Management Permit application for the disposal of wastes at Hecla Greens Creek Mine, as detailed in your application materials and in the enclosed permit. Waste Management Permit 2020DB0001 covers disposal of mining wastes at the Hecla Greens Creek Mine. It also covers containment, monitoring, reclamation and closure activities, and financial assurance for site reclamation at closure.

The attached permit is issued under the provisions of Alaska Statutes 46.03.100, and the Alaska Administrative Code (AAC), 18 AAC 15, 18 AAC 60, 18 AAC 70, and 18 AAC 72 and other applicable state laws and regulations. Please review the conditions and stipulations in this permit and ensure that they are all understood. This permit is effective **February 20, 2020** and expires after **February 19, 2025**.

Any person who disagrees with this decision may request an informal review by the Division Director in accordance with 18 AAC 15.185 or an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340. An informal review request must be delivered to the Director of the Division of Water, P.O. Box 111800, Juneau, AK 99811, within 20 days of receipt of the permit decision. An adjudicatory hearing request must be delivered to the Commissioner of the Department of Environmental Conservation, P.O. Box 111800, Juneau, AK 99811, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

Sincerely,

Gene McCabe
Program Manager

Enclosures:

Waste Management Permit 2020DB0001, Hecla Greens Creek Mine
Responses to Comments on draft Waste Management Permit 2020DB0001

cc: Kyle Moselle, DNR, Juneau
    Allan Nakanishi, DEC, Anchorage
    Brent Martellaro, DNR, Fairbanks
    Guy Archibald (SEACC)
    KJ Metcalf (Friends of Admiralty Island)
    Shannon Kelly, DNR, Juneau
    Kate Kanouse, ADF&G, Juneau
    Matt Reece, USFS, Juneau
    Doug Buteyn, DEC, Fairbanks
    Charlie Cobb, DNR, Anchorage
This Waste Management Permit is issued to Hecla Greens Creek Mining Company (HGCMC), P.O. Box 32199, Juneau, Alaska 99803-2199 for disposal of wastes from the Greens Creek Mine as described in permit section 1. HGCMC is a wholly owned subsidiary of Hecla Mining Company. The Greens Creek Mine facilities are located near Hawk Inlet on northern Admiralty Island, in the Tongass National Forest, approximately 18 miles southwest of Juneau, Alaska. The mine site is situated partly within the Admiralty Island National Monument and completely within the municipal boundary for the City and Borough of Juneau. The land is comprised of federal and patented mining claims. This permit is authorized under the provisions of Alaska Statutes (AS) 46.03, and the Alaska Administrative Code (AAC), 18 AAC 15, 18 AAC 60, 18 AAC 70 and 18 AAC 72, as amended or revised, and other applicable state laws and regulations. This permit is effective February 20, 2020, and expires after February 19, 2025. This permit may be terminated or modified according to AS 46.03.120. This permit succeeds Waste Management Permit No. 2014DB0003.

This permit is subject to the conditions and stipulations contained in sections 1 through 6, and it incorporates by reference Hecla Greens Creek General Plan of Operations (GPO) Appendix I Integrated Monitoring Plan November 2019 (IMP), Hecla Greens Creek GPO Appendix 3 Tailings Disposal Facility Management Plan April 2019 (tailings facility SOPs), Hecla Greens Creek GPO Appendix 7 Integrated Waste Management and Disposal Plan April 2019 (solid waste management plan), Hecla Greens Creek GPO Appendix 11 Waste Rock Management Plan April 2019 (waste rock management plan), and Hecla Greens Creek GPO Appendix 14 Reclamation and Closure Plan November 2019 (reclamation and closure plan). Changes to the documents incorporated herein must be approved by the Alaska Department of Environmental Conservation (Department or DEC) if they affect this permit. All changes approved by the Department will become part of this permit.

After completing reclamation activities and terminating active wastewater treatment, the Department requires the permittee to conduct post-closure maintenance and monitoring for a minimum of 30 years. The permittee shall assess the conditions at the facility and respond accordingly throughout the post-closure care period. At the end of the post-closure period, the Department will determine whether post-closure care and monitoring should be extended beyond 30 years based upon the information collected by that time.

Gene McCabe
Program Manager
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1 PERMIT COVERAGE & ADOPTED REFERENCES

1.1 COVERAGE

Greens Creek Mine ore is mined via underground methods. Waste rock removed from the mine is disposed of in waste rock Site 23 and the Tailings Disposal Facility (TDF). At the mill, the ore is ground and processed by flotation producing concentrates containing primarily lead and zinc with smaller portions of silver and gold. Flotation concentrates are thickened, filter pressed, and then trucked to the Hawk Inlet terminal for shipment off-site. Tailings from the flotation process are thickened and filter-pressed. The mill generates approximately 1,800 dry tons of filter-pressed tailings per day, or approximately 650,000 tons of tailings annually. Approximately half of the tailings are backfilled into the underground mine. The remainder of the dry tailings are covered and transported to the TDF, which is located in the upper reaches of the Tributary Creek drainage.

1.1.1 This permit covers the disposal of waste and monitoring at the following sites. The disposal sites and related appurtenances described in this Section 1.1.1 are approved for the disposal of wastes and approved as treatment works as per 18 AAC 70.990 (63) and not subject to WQS per 18 AAC 70.010(c). This permit does not authorize the discharge of wastewater to surface water. Surface water discharges from the Greens Creek Mine are authorized under Alaska Pollutant Discharge Elimination System Permit (APDES) AK0043206.

1.1.1.1 TDF

The TDF consists of a drystack tailings pile and runoff surge ponds (Pond 7 and Pond 10) situated adjacent to one another. The runoff surge ponds collect stormwater, TDF runoff, TDF underflow, and mine water before it is treated and discharged. In 2003, an Environmental Impact Statement (EIS) for expansion of the TDF was finalized by the U.S. Forest Service and followed by approval to expand the drystack tailings pile to a footprint of approximately 62 acres. On August 30, 2013, an Environmental Impact Statement (EIS) for another expansion of the TDF was completed. Afterward, the U.S. Forest Service approved plans to expand the TDF footprint southward by about 18 acres, increasing the total disturbed area of the TDF plus appurtenances to approximately 102 acres. The drystack tailings pile is currently 65 acres, and it serves as the final disposal site for tailings, waste rock, and other solid waste as allowed in section 2.1.

1.1.1.2 Site 23

Site 23, in addition to the TDF and the underground workings, is one of three active areas that receive waste rock. Its ultimate footprint is 11 acres and has an estimated capacity of 1.2 million cubic yards. At closure or before, to the extent technically practicable, Site 23 waste rock will either be relocated to the TDF or the underground mine workings for final disposal.

1.1.1.3 Underground Mine Workings

Waste rock, tailings, and other wastes as specified in section 2.1 may be disposed underground in the mine workings.
1.1.1.4 **Inactive Waste Rock Disposal Sites**

The following sites contain but no longer receive waste rock. Removal of waste rock associated with acid rock drainage and/or metal leaching from these sites for final disposal underground or in the TDF is either underway or forthcoming. To the extent technically practicable, waste rock in Sites 1350, C, D, and E will eventually be removed and either placed underground or in the TDF for final disposal.

1.1.1.4.1 **Site 1350** has a footprint of about 5 acres and is no longer open for disposal of waste rock. This site originally stored about 100,000 cubic yards of waste rock. Waste rock relocation to Site 23 for temporary storage and final disposal to either the TDF or underground is complete.

1.1.1.4.2 **Site C** has a footprint of about two acres and is no longer open for disposal of waste rock. This site stores about 48,000 cubic yards of waste rock, which will be relocated for final disposal in the TDF or permanent disposal underground.

1.1.1.4.3 **Site D** has a footprint of about seven acres and is no longer open for disposal of waste rock. This site stores about 300,000 cubic yards of waste rock and reclamation material. The waste rock will be relocated for final disposal in the TDF or permanent disposal underground.

1.1.1.4.4 **Site E** has a footprint of about nine acres and is no longer open for disposal of waste rock. This site stores about 365,000 cubic yards of waste rock and reclamation material. The waste rock is actively being relocated for final disposal in the TDF.

1.1.2 This permit also contains geochemical monitoring requirements for waste rock, construction rock, and tailings to characterize metal leaching and acid rock drainage potential; geotechnical monitoring to evaluate stability of disposal sites; biological and chemical monitoring at the Fresh Water Monitoring Plan (FWMP) monitoring stations to assess potential impacts on the fresh water aquatic ecosystem, from the operation of the mine, as described in *Hecla Greens Creek GPO Appendix I Integrated Monitoring Plan* and stipulations on chemical storage and containment.

1.1.3 The Department may set or modify permit conditions based on monitoring results or changes in facility processes according to permit amendment or modification procedures.

1.2 **ADOPTED REFERENCES**

1.2.1 In addition to the stipulations in this permit, the permittee shall adhere to the applicable requirements of 18 AAC 15 Administrative Procedures, 18 AAC 60 Solid Waste Management Regulations, 18 AAC 70 Alaska Water Quality Standards (WQS), and 18 AAC 72 Wastewater Disposal. The permittee shall also adhere to Department-approved plans authorized under the permit. When the terms of this permit differ from the terms of Department-approved project documents adopted by reference in this section, the most recent term with written Department approval is controlling. If there is doubt as to which conflicting term is newer, this permit shall control. The Department-approved plans adopted by reference in this section must be updated incorporating any changes necessary to be consistent with
the terms of this permit, and these plans may be revised provided that written
Department approval is received. Department-approved plans adopted by reference
into this permit include the following documents:

1.2.1.1 Hecla Greens Creek GPO Appendix 1 Integrated Monitoring Plan November
2019 (IMP),

1.2.1.2 Hecla Greens Creek GPO Appendix 3 Tailings Disposal Facility
Management Plan April 2019 (tailings facility SOPs),

1.2.1.3 Hecla Greens Creek GPO Appendix 7 Integrated Waste Management and
Disposal Plan April 2019 (solid waste management plan),

1.2.1.4 Hecla Greens Creek GPO Appendix 11 Waste Rock Management Plan April
2019 (waste rock management plan), and

1.2.1.5 Hecla Greens Creek GPO Appendix 14 Reclamation and Closure Plan
November 2019 (reclamation and closure plan).

2 SPECIFIC CONDITIONS

2.1 ACTIVE WASTE DISPOSAL FACILITIES

2.1.1 All Active Waste Disposal Facilities - Waste disposal is permitted in three areas
(TDF, Site 23, and underground mine workings) listed in section 2.1 provided that
the conditions of this permit are satisfied.

2.1.1.1 Limitations

2.1.1.1.1 Except as otherwise authorized in an APDES permit, the permittee shall
control and treat onsite surface water, groundwater and seepage as
necessary to prevent offsite water quality exceedances.

2.1.1.1.2 The permittee shall ensure that all wastes are deposited in the TDF in a
manner that will not damage or otherwise jeopardize the integrity of the
containment.

2.1.1.1.3 Activities at the site that will cause a greater amount of waste material to be
treated and disposed than considered in this section of the permit are
prohibited without the prior approval by the Department. This condition
excludes mining and milling rates which are not considered in this section.

2.1.1.1.4 The following materials shall not be disposed onsite, unless approved in
writing by the Department:

2.1.1.1.4.1 Laboratory wastes other than wash waters, neutralized acids and
neutralized bases; however disposal or recycling of refinery slag, fire
assay crucibles and cupels is permitted;

2.1.1.1.4.2 Discarded, unused chemicals not associated with the beneficiation
process; however chemicals that have been added or used through the
beneficiation process may be disposed of in the TDF or underground
workings;
2.1.1.4.3. Contaminated soils, spill boom, liners used for the containment of spilled hazardous materials, chemicals used in the cleanup of spills or other spill cleanup wastes other than chemicals used in the beneficiation process,

2.1.1.4.4. Uncombusted household waste;

2.1.1.4.5. Sewage solids that are untreated or have less than 10% solids by weight;

2.1.1.4.6. Asbestos waste;

2.1.1.4.7. Acute hazardous wastes, as defined by 18 AAC 60.990(157), including radioactive material, explosives, strong acids and untreated pathogenic waste; however, this prohibition does not preclude disposal of natural minerals found in mine rock or residual wastes included as byproducts of the beneficiation process;

2.1.1.4.8. Fuels, oil, transformers, paint, or hazardous waste as defined in AS 46.03.900(9); and

2.1.1.4.9. Glycol and solvents.

2.1.2 TDF – The primary function of the TDF is for the disposal of filter pressed tailings. It must be designed, operated, and reclaimed as waste containment facility preventing any discharge of solids or liquids according to the tailings facility SOPs and reclamation and closure plan. The following conditions under section 2.1.2 apply to the TDF and its appurtenances.

2.1.2.1 The following inert wastes may be disposed in the TDF:

2.1.2.1.1 Settled solids from sumps, ditches, settling ponds, and degrit basins;

2.1.2.1.2 Incinerator ash and residue;

2.1.2.1.3 Ash from burning scrap wood;

2.1.2.1.4 Iron (drill steel, balls, empty cans, etc.);

2.1.2.1.5 Empty plastic and glass containers;

2.1.2.1.6 Inert, non-putrescible, domestic waste;

2.1.2.1.7 Construction debris;

2.1.2.1.8 Non-terne plated used oil filters that have been gravity hot-drained;

2.1.2.1.9 Such other material as would otherwise be disposed of in an inert solid waste landfill without special handling; and

2.1.2.1.10 Filtered pressed sludge from the waste water treatment plant.

2.1.2.2 Sewage solids may be disposed in the TDF provided that they

2.1.2.2.1 Contain no less than 10% solids by weight,

2.1.2.2.2 Are treated with lime so that a pH of 12 is maintained in the solids after one hour of contact before disposal, and
2.1.2.2.3 Are covered with at least six inches of cover material on the day of disposal.

2.1.2.3 Co-disposal of Class 4 waste rock\(^1\) in the TDF is prohibited, unless authorized in writing by ADEC.

2.1.2.4 Class 1 and Class 2/Class 3 waste rock\(^1\) from underground, Site 23, Site 1350, Site C, Site D, Site E, other surface facilities, or construction rock may be disposed of in the TDF.

2.1.2.5 The permittee shall ensure that wastes are deposited into the TDF in a manner that will not damage or otherwise jeopardize the integrity of the containment of the TDF.

2.1.2.6 Pond 7 and Pond 10, appurtenances of the TDF, operated as approved by the Department in consultation with Alaska Department of Natural Resources (ADNR), Division of Mining, Land and Water, Dam Safety and Construction Unit.

2.1.2.7 When a statistically significant increase in a constituent concentration above a WQS at an FWMP sampling location associated with the TDF is discovered, then corrective action as designated in section 2.5.3 must be implemented.

2.1.3 Site 23 – Site 23 must be designed, operated, and reclaimed as a waste containment facility preventing any discharge of solids or liquids according to the waste rock management plan and reclamation and closure plan. The following conditions under section 2.1.3 apply to Site 23 and its appurtenances. The term "appurtenances" includes but not limited to impermeable liners, containment embankments, drainage control components such as ditches, roads necessary for the workings, plastic pipes for leachate transmission, and sumps for collection of leachate, manholes, pipe risers, internal dikes, berms, or access ramps.

2.1.3.1 Only Class 1 and Class 2/Class 3\(^1\) waste rock may be disposed at Site 23.

2.1.3.2 Waste rock that is neither Class 1 nor Class 2/Class 3 may be temporarily stored at Site 23 provided that it is placed on an impermeable liner, containment and drainage controls prevent release of leachate and runoff, and written Department approval is received.

2.1.3.3 When a statistically significant increase in a constituent above a WQS at an FWMP sampling location associated with Site 23 is discovered, then corrective action as designated in section 2.5.3 must be implemented.

2.1.3.4 The permittee shall ensure that all wastes are deposited in a manner that will not damage or otherwise jeopardize the integrity of Site 23 containment.

2.1.3.5 Ash from combustion of scrap wood material may be disposed at Site 23.

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\(^1\) Waste rock is classified based on acid generation potential ranging from Class 1 waste rock (least acid generation potential) to Class 4 waste rock (greatest acid generation potential).
2.1.4 Underground Mine Workings – The underground mine workings must be operated and reclaimed as a waste containment facility preventing any discharge of solids or liquids according to the solid waste management plan, waste rock management plan, and reclamation and closure plan. The following conditions under section 2.1.4 apply to the waste disposal in the mine.

2.1.4.1 The following wastes may be disposed of in the underground mine:

2.1.4.1.1 Class 1, Class 2 and Class 3 waste rock, and

2.1.4.1.2 Filter pressed tailings.

2.1.4.2 The following wastes may only be disposed in the underground mine:

2.1.4.2.1 Class 4 waste rock, and

2.1.4.2.2 Tires.

2.1.4.3 The following inert wastes may be disposed in the underground mine:

2.1.4.3.1 Settled solids from sumps, ditches, settling ponds, and degritting basins;

2.1.4.3.2 Incinerator ash and residue;

2.1.4.3.3 Ash from burning scrap wood;

2.1.4.3.4 Iron (drill steel, balls, empty cans, etc.);

2.1.4.3.5 Empty plastic and glass containers;

2.1.4.3.6 Inert, non-putrescible, domestic waste;

2.1.4.3.7 Construction debris;

2.1.4.3.8 Non-terne plated used oil filters that have been gravity hot-drained; and

2.1.4.3.9 Such other material as would otherwise be disposed of in an inert solid waste landfill without special handling.

2.2 SITE CONSTRUCTION, MAINTENANCE, & OPERATION

2.2.1 General

2.2.1.1 Changes that may have a significant impact on mine closure, reclamation; information on engineering changes to the mill that may have a significant impact on waste characteristics; new waste treatment processes; changes to solid waste disposal facilities, changes to ground and surface water interception, conveyance or monitoring systems; and the addition of new waste streams that discharge to TDF including Pond 7 and Pond 10, Site 23, or underground workings must be submitted to the Department and approval must be obtained prior to any such changes or discharges.

2.2.1.2 The permittee shall develop the waste disposal facilities covered under this permit in accordance with Department-approved plans and amendments thereof, which are submitted by the applicant as required by this permit and referenced in section 1.2.1. Pollution prevention concepts shall be incorporated into operations plans for the project.
2.2.1.3 The permittee shall design, operate, and reclaim surface disposal facilities to minimize run-on of storm water.

2.2.2 Secondary Containment

2.2.2.1 Secondary containment of all hazardous substances, as defined at AS 46.03.826(5), must be impermeable to those stored hazardous substances.

2.2.2.3 The permittee shall provide and maintain secondary containment for all chemical mix tanks containing hazardous or toxic materials and new piping associated with that tankage. Secondary containment is considered to be 110% of the largest tank within a containment area or the total volume of manifoldded tanks. The permittee must design and install secondary containment structures in a manner that ensures that solid waste and leachate will not escape from the structures. To prevent such discharges, facilities shall be maintained in good working condition at all times by the permittee.

2.2.4 Notification

2.2.4.1 Introduction of new chemicals into the process requires written Department approval. The permittee shall submit an approval request to the Department at least 15 days before the introduction of a new chemical into the process or waste treatment streams. Safety Data Sheets on new chemicals must be forwarded to the Department at the time of notification and maintained onsite.

2.2.4.2 Under 18 AAC 72.600, the permittee shall submit engineering plans to the Department at least 60 days before construction or modification of an applicable system, and receive Department approval of any changes that will significantly modify the quality or quantity of waste stream, the operation of a waste treatment component, or the disposal facilities covered under this permit.

2.2.4.3 With respect to any Department approved change as described in section 2.2.3.2, the permittee must submit to the Department within 90 days after completing construction:

2.2.4.3.1 As-built drawings of the process component(s) that show any changes of those aspects that would affect performance of that process component as required in 18 AAC 72.600,

2.2.4.3.2 A summary of the quality control activities that were carried out during construction, and

2.2.4.3.3 The revised operating plans that reflect modifications made during construction.

2.2.5 Fuel and Hazardous Substances

2.2.5.1 The permittee shall design and install all process piping and chemical mix tanks, which contain hazardous or toxic materials, to allow for routine inspections for leaks. New process piping installed outside of the mill building must not be buried unless secondary containment is used that provides the ability to inspect for leaks. The stipulation requiring the ability to inspect for leaks does not apply to installation of buried piping at the TDF. This permit condition does not apply to maintenance and repair of all existing process lines or relocation of process lines at the TDF.
2.2.5.2 The permittee shall maintain fuel handling and storage facilities in a manner that will minimize the discharge of hazardous substances.

2.3 MONITORING

2.3.1 The IMP dated November 2019, submitted by HGCMC and approved by the Department, is incorporated into this permit. Future Department-approved changes to project monitoring will be included as modifications to the IMP and do not require re-issuance or modification of this permit. The IMP shall contain monitoring procedures to include the following and must be updated, as needed to conform to the permit, within 90 days of permit issuance.

2.3.1.1 Visually monitor the TDF and Site 23 for signs of damage or potential damage from settlement, ponding, leakage, instability, frost action, erosion, thawing of the waste, or operations at the site. Visual monitoring shall be at least weekly and documented monthly. Monitor surface and groundwater as designated in the FWMP to ensure that WQS are not exceeded and that sample results are statistically valid.

2.3.1.2 Water chemistry analytical methods employed must be sensitive enough to determine compliance with for all applicable WQS. The minimum level of quantification (ML) for a given parameter’s measurement must be less than or equal to the most stringent applicable WQS for that substance. Conduct biological monitoring in Greens Creek and Tributary Creek in accordance with the FWMP to document the continued health of the aquatic communities. The permittee shall measure:

2.3.1.2.1 The abundance and condition of juvenile fish. Juvenile fish abundance shall be reported as the number of fish, by species, captured during a single pass (1.5 hour) depletion trapping event, following established methods;

2.3.1.2.2 Whole body concentrations of cadmium, copper, mercury, lead, selenium, silver, and zinc in juvenile fish tissue;

2.3.1.2.3 Periphyton biomass, estimated by chlorophyll-a concentrations. Statistical data comparisons among years at each site are not required; and

2.3.1.2.4 Abundance and community structure of benthic invertebrates.

2.3.1.3 Geochemical monitoring of Greens Creek Mine overburden, construction rock, waste rock, and tailings is required to ensure that there is low potential for production of leachate that is acidic or contains levels of metals that would contaminate surface or groundwater.

2.3.1.4 Monitor the geotechnical stability of the TDF and Site 23.

2.3.1.5 Monitor amounts and geochemistry, including numerical classification where applicable, of waste rock and tailings disposed.

2.3.1.6 Water flow and management monitoring is required to account for process water discharged to the Pond 7 and Pond 10, process water recycled to the mill, storm water, flow under the TDF into Pond 7 and Pond 10, water levels in piezometers, and meteorology.

2.3.1.7 Monitoring of fugitive dust emissions as specified in the IMP.
2.3.2 The permittee must develop a quality assurance project plan (QAPP) for all sampling required by this permit. The QAPP may be contained in the IMP. The QAPP, or the QAPP portion of the IMP, must be completed within 90 days of the effective date of this permit and made available upon request. Any changes made to the existing QAPP shall be completed according to section 2.3.2.3.

2.3.2.1 The QAPP must be designed to assist in planning for the collection and analysis of water samples in support of the permit and in explaining data anomalies when they occur and the QAPP must be formatted as specified in the most recent edition of Elements of a Tier 2 Water Quality QAPP by DEC, Division of Water, Water Quality Standards, Assessment, and Restoration Program, Quality Assurance Section. Throughout all sample collection and analysis activities, the permittee must use chain-of-custody procedures described in the most recent edition of Elements of a Tier 2 QAPP by DEC, Division of Water, Water Quality Standards, Assessment, and Restoration Program, Quality Assurance Section.

2.3.2.2 The permittee must amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP.

2.3.2.3 A copy or copies of the QAPP must be kept onsite and made available to the Department upon request.

2.3.3 The permittee must monitor Pond 7 and Pond 10 as approved by the Department in consultation with Alaska Department of Natural Resources (ADNR), Division of Mining, Land and Water, Dam Safety and Construction Unit.

2.3.4 Samples taken as required by section 2.3 shall be analyzed in conformance with the most recent IMP and QAPP submitted by HGCMC, as approved by the Department.

2.3.5 Maintenance of inspection and sampling logs and procedures for processing, consolidating, and reporting inspection and sampling data shall be in conformance with the IMP and QAPP submitted by HGCMC, as approved by the Department.

2.3.6 Groundwater and surface water monitoring and corrective action monitoring shall be in accordance with section 2.5, 18 AAC 60 Solid Waste Management Regulations, and the IMP and QAPP submitted by HGCMC, as approved by the Department.

2.3.7 The Department may modify monitoring requirements, including the establishment of additional FWMP compliance points in response to trends showing changes in the concentration of parameters being monitored.

2.3.8 If the permittee monitors any influent, effluent, receiving water, or solid waste characteristic governed under the provisions of 18 AAC 60, 18 AAC 70, and 18 AAC 72, with the exception of monitoring associated with a wastewater discharge permit, more frequently than required, the permittee shall notify the Department that the additional monitoring has occurred in the biannual report for the period when the monitoring has occurred. The results of such monitoring shall be available for inspection by the Department at the project site, or other location proposed by the permittee and agreed upon by the Department. The permittee shall provide copies of the results to the Department upon request.
2.4 REPORTING

2.4.1 When a statistically significant increase in the concentration of a constituent above a WQS is discovered at an FWMP monitoring location, or if noncompliance with a requirement set out in sections 2.1 or 2.2 is discovered, the permittee shall verbally notify the Department no later than the end of the next working day after discovery, and shall conduct corrective actions according to section 2.5.3.

2.4.2 The permittee shall provide the Department with biannual monitoring reports summarizing inspection and monitoring results required in section 2.3. Reports shall satisfy the following conditions.

2.4.2.1 Due Dates – Biannual reports will be submitted by August 31 for the period January 1 to June 30 of the current year and by March 3 for the period July 1 to December 31 of the previous year.

2.4.2.2 Form – Reports shall be provided in electronic form using commercially available software or according to other electronic reporting requirements approved by the Department. Paper copies of the reports are not required unless specifically requested.

2.4.2.3 Content - Reports shall contain a narrative portion discussing data and information collected during the preceding monitoring period.

2.4.2.4 Graphing - Reports shall present water quality data in graphical form indicating trends as well as the margin of compliance with limits.

2.4.2.4.1 Graphs of concentration measurement versus time must include the past five years of data, if available, and may contain all historic data.

2.4.2.4.2 The graphs must also include the parameter, units, and applicable permit limit or WQS.

2.4.2.4.3 Multiple stations, identified using symbols in a legend, may be included in the same graph.

2.4.2.4.4 Scales shall be proportioned to display the limit or WQS, as indicated by a highlighted line, near the top of the graph or when data exceeds the limit, the maximum value shall be near the top of the graph.

2.4.2.4.5 For graphical purposes, non-detect values shall be plotted at one half the method detection limit (MDL), and values between the ML and MDL shall be plotted at the value of the qualified measurement.

2.4.2.5 Data – Reports shall contain an electronic copy (preferably Excel) of the monitoring data for the reporting period, including the past five years’ data, if available, and may contain all historical data in spreadsheet form. When a value is less than the ML, it must be identified as less than the ML, and the ML must be provided. Non-detect values must be identified as less than the MDL or non-detect, and the MDL must be provided in the electronic water quality data spreadsheets.
2.4.2.6 Financial – Annually, in the report due March 3 address the adequacy of the financial responsibility including, but not limited to significant changes in reclamation activity costs, concurrent reclamation, expansion or other changes to the operation of the facility.

2.4.2.7 Meeting – Annually, the biannual reports for the prior calendar year will be discussed at the annual meeting with the Department, and open to the public.

2.4.3 The permittee shall provide the Department with copies of any amendments to the plan of operations, including the reclamation and closure plan, when they affect the waste disposal operations authorized by the permit.

2.4.4 All records and information and reports resulting from the monitoring activities required by this permit, including but not limited to all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation, shall be retained in Alaska for observation by the Department for a minimum of five years. Upon request from the Department, the permittee shall submit certified copies of such records.

2.4.5 Any onsite wildlife casualties associated with facility activities shall be reported within one working day of discovery to the Department.

2.4.6 All printed reports submitted under the requirements of this permit shall be sent to:

Dept. of Environmental Conservation
Division of Water, Compliance Program
555 Cordova St.
Anchorage, AK  99501

2.4.7 Knowingly making a false statement, by the permittee, the operator or other employees, including contractors, on any such report may result in the imposition of criminal penalties as provided under AS 46.03.790.

2.5 CORRECTIVE ACTIONS

2.5.1 The permittee shall comply with 18 AAC 60.815 if the visual monitoring program in section 2.3.1.1 discovers damage or potential damage to the waste disposal-related facility that could lead to water quality violations.

2.5.2 When a statistically significant increase in a constituent concentration above a WQS at an FWMP sampling location is discovered, the permittee shall comply with 18 AAC 60.820-860. Statistical significance shall be determined using one of the methods outlined in 18 AAC 60.830(h). The permittee shall comply with the notification requirements in 18 AAC 60.850(c) upon determining a statistically significant increase in a constituent concentration.

2.5.3 For a single constituent, when a statistically significant increase in concentration above a WQS is discovered at an FWMP water monitoring station or if noncompliance with a requirement set out in sections 2.1 or 2.2 is discovered, the permittee shall:

2.5.3.1 Orally notify the Department no later than the end of the next working day;

2.5.3.2 Determine the extent of the exceedance or noncompliance;
2.5.3.3 In consultation with the Department and documented in writing, implement a plan to restore compliance and determine the cause of the exceedance or noncompliance;

2.5.3.4 Submit to the Department, within seven working days after an exceedance or noncompliance is verified by the permittee, a plan for corrective actions to prevent adverse environmental impacts and avoid future exceedances of a similar nature; and

2.5.3.5 Implement the corrective action plan as approved by the Department.

2.6 SUSPENSION OF OPERATIONS

2.6.1 Suspension of operations is defined as a suspension of mining and milling/processing activities for more than 90 days but less than three years. The length of time for the period of suspension may be extended beyond three years by written authorization from the Department. The permittee shall submit a conceptual suspension of operations plan to the Department within 90 days of permit issuance.

2.6.2 The permittee must notify the Department within three days of suspending operations. The notice shall provide the nature of and reason for the suspension and its anticipated duration.

2.6.3 No later than ten days after operations have been suspended, the permittee shall submit a detailed suspension of operations plan that replaces the suspension of operations conceptual plan required by section 2.6.1 with current information and specific details. The suspension plan shall address the following:

2.6.3.1 Explanation of what would reasonably result in resuming or permanently terminating mining or milling/processing activities;

2.6.3.2 Reclamation or construction activities during the period of temporary suspension;

2.6.3.3 Procedures, methods, and schedule to be implemented for the treatment, disposal, or storage of process water;

2.6.3.4 The control of surface and groundwater drainage to and from the facility and the surrounding area;

2.6.3.5 The control of erosion from the drystack, waste rock disposal areas, mill and camp site, and any other disturbed areas within the facility boundary;

2.6.3.6 The secure storage of chemicals during the period of suspended operations; and

2.6.3.7 Procedures for maintaining and monitoring the Pond 7 and Pond 10 and site-wide water balance.

2.6.4 The Department shall have 15 days to review and approve or request modifications to the suspension plan.

2.6.5 Once a suspension of operations plan has been approved, it becomes enforceable under the conditions of this permit and full implementation of the approved suspension plan is required. The plan can be amended by submitting a revised plan to the Department for approval.

2.6.6 During suspension of operations, the permittee shall:
2.6.6.1 Continue pollution control activities associated with waste disposal and management, including but not limited to dust control, maintenance of the drainage diversion structures, maintenance of all discharge and leakage control structures and processes, and maintenance of the Pond 7 and Pond 10 dam system as approved by the Department in consultation with Alaska Department of Natural Resources (ADNR), Division of Mining, Land and Water, Dam Safety and Construction Unit.

2.6.6.2 Continue monitoring and reporting activities for the active waste disposal facilities as specified by this permit or the suspension plan.

2.6.6.3 Continue reclamation and corrective action requirements under the reclamation and closure plan in light of the nature of the closure.

2.6.7 Written Department approval is required before resuming operations after a period of temporary closure.

2.7 TERMINATION OF MINING & MILLING

2.7.1 Termination of mining and milling/processing activities is defined as the permanent cessation of those activities. Updated reclamation and monitoring plans must be submitted for approval within 90 days after initiating termination of mining and milling/processing. The updated plans must address current conditions at the facility. Updates and changes to those plans must be approved in writing by the Department.

2.7.2 Termination of mining and milling at the site must be implemented and completed according to the conditions of this permit and with the reclamation and closure plan approved by the Department and incorporated by reference into this permit.

2.7.3 Closure of the waste disposal facilities will be complete when the following criteria are met:

2.7.3.1 Reclamation is complete at the 1350 portal area, 920 portal area including the mill site, Sites C, D, and E, Site 23, TDF as described in the reclamation and closure plan approved by the Department and incorporated by reference into this permit and drainage channels are constructed and stable;

2.7.3.2 A stable vegetative cover is established on the waste rock, re-contoured areas, and other infrastructure or other facilities as prescribed in the reclamation and closure plan approved by the Department and incorporated by reference into this permit; and

2.7.3.3 The Department determines that active water treatment is no longer required for any water discharged from the facility.

2.7.4 Closure must be achieved before terminating any care and maintenance activities required by section 2.6.6 and the approved suspension plan if a period of suspended operations immediately preceded termination of mining and milling.

2.7.5 The permittee shall maintain the facility correcting any erosion or settlement of the TDF, waste rock disposal sites, and drainage channels that may impair water quality or otherwise threaten the environment, up until the time that this permit, or any successor permit, is transferred to another entity or terminated by the Department.

2.7.6 Disposal of demolition debris onsite may be approved during closure activities.
according to a plan approved by the Department.

2.7.7 Post-closure monitoring of ground and surface water quality and visual monitoring for settlement, seeps, and erosion is required in years 1, 2, 5, 10, 15, 20, and 30 after satisfying the criteria in section 2.7.3. Post-closure monitoring shall be performed according to the reclamation and closure plan approved by the Department. This schedule and the parameters monitored may be modified by the Department based on the monitoring results received.

2.8 FACILITY AUDIT
Unless waived by the Department a periodic third-party environmental audit shall be conducted during the final year of the permit term or sooner if final closure starts during the permit term. If an audit is required, the field inspection portion of the audit shall be conducted during the snow free season the year before permit expiration. The audit will include all aspects of this Waste Management Permit. The environmental audit is intended to verify the Permittee’s compliance with applicable laws and regulations associated with this approval. The third-party contractor should be mutually agreed on by the State and the Permittee, but in the event that agreement cannot be reached, the State retains the final contractor selection decision. Costs for the third-party contractor shall be borne by the Permittee. The environmental audit shall include an evaluation of the adequacy of the approved financial assurance.

3 GENERAL CONDITIONS

3.1 ACCESS AND INSPECTION
The permittee shall allow the Commissioner or his/her representative access to the permitted facility at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, state laws, and regulations.

3.2 INFORMATION ACCESS
Except where protected from disclosure by applicable State or Federal law, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the State of Alaska, Department of Environmental Conservation, Fairbanks, Alaska.

3.3 CIVIL AND CRIMINAL LIABILITY
Nothing in this permit shall relieve the permittee from any potential civil or criminal liability for noncompliance with the permit or with applicable laws.

3.4 AVAILABILITY
The permittee shall post or maintain a copy of this permit available to the public at the facility.

3.5 ADVERSE IMPACT
The permittee shall take all necessary means to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the noncomplying activity. The permittee shall cleanup and restore all areas adversely impacted by the noncompliance.
3.6 CULTURAL OR PALEONTOLOGICAL RESOURCES
Should cultural or paleontological resources be discovered as a result of this activity, work, which would disturb such resources, is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, ADNR is to be notified promptly.

3.7 APPLICATIONS FOR RENEWAL
In accordance with 18 AAC 15.100(d), an application for renewal or amendment of this permit must be made no later than 120 days before the expiration date of the permit or the planned effective date of the amendment.

3.8 OTHER LEGAL OBLIGATIONS
This permit does not relieve the permittee from the duty to obtain any other necessary permits from the Department or from other local, state, or federal agencies, and to comply with the requirements contained in any such permits. All activities conducted and all plans implemented by the permittee pursuant to the terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

3.9 TRANSFER OF OWNERSHIP
In the event of any change in control or ownership of the permitted facility, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director of the Division of Water. The original permittee remains responsible for permit compliance unless and until the succeeding owner or controller agrees in writing to assume such responsibility, and the Department approves assignment of the permit. The Department will not unreasonably withhold such approval.

As between the State and the permittee, no transfer of this permit shall relieve the permittee of any liability arising out of operations conducted prior to such transfer, regardless of whether such liability accrues before or after such transfer.

3.10 TOXIC POLLUTANTS
If during the life of this permit a new or revised toxic pollutant (including oil, grease, or solvents) concentration standard is established in accordance with 18 AAC 70 for a pollutant managed at this facility and that standard is more stringent than previously, then upon the effective date of the new rule, this permit automatically adopts the new toxic pollutant concentration standard and applies it to management of facility wastes.

3.11 POLLUTION PREVENTION
In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the permittee shall consider the following order of priority options as outlined in AS 46.06.021:

1st waste source reduction,
2nd recycling of waste,
3rd waste treatment, and
4th waste disposal.
4 FINANCIAL RESPONSIBILITY

4.1 PROOF OF FINANCIAL RESPONSIBILITY

Under AS 46.03.100(f), 18 AAC 15.090, and 18 AAC 60.265, the Department has authority and responsibility to require proof of financial responsibility for closure of the facility and post-closure monitoring.

4.1.1 The permittee shall provide the Department with proof of financial responsibility for reclamation and closure of the facilities and post-closure monitoring. The proof of financial responsibility shall cover costs incurred for reclamation and closure and post-closure monitoring of all mine facilities, including the mill area, 1350 portal area, 920 portal area, underground workings, Site C, Site D, Site E, Site 23, TDF, and related facilities, shall cover the activities set out in section 4, and shall be in the amount shown in section 4. An overview of the areas covered by the financial responsibility for reclamation and closure is shown in figure 6.2.

4.1.2 The Department will review and modify if necessary, the financial responsibility requirements including adjustments for concurrent reclamation, expansion, or other changes to the operation of the facility. The permittee shall address the adequacy of the financial responsibility in the report required in section 2.4.

4.1.3 The proof of financial responsibility may be in the form of a trust fund, surety bond, letter of credit, insurance, or another Department-approved mechanism.

4.1.4 Approved proof of financial responsibility must remain available through the post-closure period and may not be released in its entirety until the Department certifies in writing that closure of the facility and the required post-closure monitoring have been successfully concluded or that another entity has assumed responsibility for permit compliance, reclamation and closure activities, and post-closure monitoring.

4.1.5 The permittee must provide acceptable proof of financial responsibility within 60 days of the permit’s effective date. The Department will accept or reject the financial surety as expeditiously as possible but in no event later than 30 days after its receipt.

4.1.6 If the permittee is unable to provide acceptable proof of financial responsibility to the Department, as approved by the Department in writing, within the time period stated above, this permit will expire automatically at that time, notwithstanding any other approvals to the contrary, unless the Department’s failure to act is responsible for the delay in accepting or rejecting this proof.

4.1.7 If the permittee fails to comply with the terms and conditions of this permit and if the Department concludes that such failure may prevent, inhibit or delay satisfactory reclamation and closure or post-closure monitoring of the facility, then the Department may exercise its rights, under an approved mechanism, to access financial responsibility funds and use them for reclamation and closure and post-closure activities.

4.1.8 The permittee can apply to have the amount of the financial responsibility adjusted during the life of the permit if, for example, concurrent reclamation has been completed.
4.1.9  LONG-TERM CARE AND WATER TREATMENT

4.1.9.1 The permittee must provide financial assurance for long-term care and water treatment. The proof of financial responsibility shall cover costs incurred for water treatment (e.g. labor, electricity, and chemicals) and care (e.g. monitoring, maintenance, reporting, and labor).

4.1.9.2 The Department will review and modify as necessary every five (5) years or upon renewal of the permit the financial responsibility required for long-term care and water treatment. The permittee will be required to renew or replace the financial responsibility instrument upon renewal of this permit. Upon replacement of the financial responsibility instrument, the prior instrument will be void and any guarantor thereof will be released from all past, present and future liability.

4.2  AMOUNT OF FINANCIAL RESPONSIBILITY

The total proof of financial responsibility for the life of this permit, unless modified, shall be $92,176,539. A detailed breakdown of the financial responsibility cost estimate can be found in the reclamation and closure plan. Details of the required financial responsibility for reclamation can be found in table 1. Details of the required financial responsibility for long-term care and water treatment can be found in table 2. Tables 1 and 2 are provided for clarity and not as an attempt to compartmentalize the financial responsibility funds. The Department retains the right to access the total amount of the financial responsibility as provided in section 4.1.7.

Table 1: Financial Assurance (Reclamation Phase)

<table>
<thead>
<tr>
<th>Years (zero &quot;0&quot; indicates the beginning of the closure sequence and the subsequent years indicate year's end)</th>
<th>Annual Cash Flows¹ (years 1-4 earthwork and water treatment)</th>
<th>Present Value</th>
<th>Inflation² (1.28% average of the last 5 years of the Anchorage CPI)</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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<tr>
<td>1</td>
<td>$7,076,026</td>
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<tr>
<td>2</td>
<td>$23,717,531</td>
<td>$74,595,037</td>
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<tr>
<td>3</td>
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<td>$20,523,754</td>
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<tr>
<td>5</td>
<td></td>
<td></td>
<td>$77,496,480</td>
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</tbody>
</table>

¹ This column represents the present values for reclamation costs that are scheduled during the first four years after the termination of mining and milling. Amounts include both direct and indirect costs that are detailed in the reclamation and closure plan.

² This column represents the present value adjusted by adding five years of inflation covering inflation incurred during the permit term. The cost at year five is the required reclamation financial responsibility amount.
Table 2: Financial Assurance (Long-Term Care Phase)

<table>
<thead>
<tr>
<th>Years (zero &quot;0&quot; indicates the beginning of the closure sequence and the subsequent years indicate year's end)</th>
<th>Annual Cash Flows(^1) (year 5 payout for long term care until year 200 and beyond)</th>
<th>Net Present Value(^2) (3.97% estimated real rate of return)</th>
<th>Inflation(^3) (1.28% average of the last 5 years of the Anchorage CPI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>$13,755,562</td>
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<tr>
<td>2</td>
<td></td>
<td>$14,130,474</td>
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</tr>
<tr>
<td>3</td>
<td></td>
<td>$14,311,344</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>$14,494,529</td>
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</tr>
<tr>
<td>5</td>
<td>$16,096,873</td>
<td>$14,680,059</td>
<td></td>
</tr>
</tbody>
</table>

1. This column represents the net present value cost for long term care and water treatment when all the expenses are rolled into a single payment during the fifth year after termination of mining and milling. A real rate of return, 3.97%, was applied to costs for water treatment during years 5 through 200 including water treatment plant replacement and maintenance. The total includes both direct and indirect costs that are detailed in the Reclamation and Closure Plan.

2. This amount represents the net present value assuming a real rate of return of 3.97%.

3. This column represents the net present value adjusted by adding five years of inflation covering inflation incurred during the permit term. The cost at year five is the required long-term care and maintenance financial responsibility amount.
## 5 GLOSSARY OF TERMS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAC</td>
<td>Alaska Administrative Code</td>
</tr>
<tr>
<td>ADNR</td>
<td>Alaska Department of Natural Resources</td>
</tr>
<tr>
<td>APDES</td>
<td>Alaska Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>AS</td>
<td>Alaska Statutes</td>
</tr>
<tr>
<td>EIS</td>
<td>Environmental Impact Statement</td>
</tr>
<tr>
<td>FWMP</td>
<td>Fresh Water Monitoring Program</td>
</tr>
<tr>
<td>GPO</td>
<td>General Plan of Operations – comprised of several appendices. This permit references and adopts GPO appendices 1, 3, 7, 11, and 14.</td>
</tr>
<tr>
<td>HGCMC</td>
<td>Hecla Greens Creek Mining Co.</td>
</tr>
<tr>
<td>IMP</td>
<td>Integrated Monitoring Plan</td>
</tr>
<tr>
<td>MDL</td>
<td>Method Detection Limit</td>
</tr>
<tr>
<td>ML</td>
<td>Minimum Level of Quantification</td>
</tr>
<tr>
<td>Permittee</td>
<td>Hecla Greens Creek Mining Co.</td>
</tr>
<tr>
<td>QAPP</td>
<td>Quality Assurance Project Plan</td>
</tr>
<tr>
<td>TDF</td>
<td>Tailings Disposal Facility</td>
</tr>
<tr>
<td>WQS</td>
<td>Alaska Water Quality Standards</td>
</tr>
</tbody>
</table>
6 Figures

6.1 CURRENT AND PROPOSED FWMP MONITORING SITES
6.2 MINE FACILITY LOCATIONS
6.3 CURRENT TAILINGS DISPOSAL FACILITIES