June 25, 2019

Andrew Cole, General Manager
Donlin Gold LLC
4720 Business Park Boulevard, Suite G-25
Anchorage, AK 99503

Subject: Waste Management Permit 2017DB0001, Donlin Gold Project

Dear Mr. Cole:

On January 18, 2019, DEC issued Waste Management Permit (WMP) 2017DB0001. On February 7, 2019, DEC received a timely request for informal review from EarthJustice to the DEC Division of Water Director. On February 14, 2019 informal review decision was issued. The Director’s informal review decision denied the request to vacate the permit on the grounds that it was issued in violation of applicable law; however, the WMP was remanded to the Division of Water, Wastewater Discharge Authorization Program in order to ensure only allowable items are included in the treatment works identified by the permit and a determination, consistent with the Informal Decision, that groundwater underlying treatment works can be included in the scope of the treatment works.

Attached is a copy of WMP 2017DB0001 which has been modified in accordance with the Director’s remand decision and a copy of the Response to Comments document in which an explanation of the permit modification is provided in the Introduction section. This letter and modified permit constitutes the Department’s Minor Modification of WMP 2017DB0001 and is consistent with regulations at 18 AAC 15.185. The Minor Modification is effective on June 25, 2019 and the original expiration date of the permit remains unchanged.
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, 555 Cordova St., Anchorage, AK 99501, 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, 410 Willoughby Ave., Suite 303, Juneau, AK 99801, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

Sincerely,

[Signature]

Gene McCabe
Program Manager

Enclosures: Waste Management Permit 2017DB0001, Donlin Gold Project
Responses to Comments on draft Waste Management Permit 2017DB0001

cc:
Dan Graham, Donlin Gold
Kyle Moselle, DNR, Juneau
Tim Pilon, DEC, Anchorage
Steve Buckley, DNR, Anchorage
Charley Cobb, DNR, Anchorage
Audra Brase, DFG, Fairbanks
Brent Martellaro, DNR, Fairbanks
This Waste Management Permit is issued to Donlin Gold LLC (Donlin Gold), 4720 Business Park Blvd., Suite G-25, Anchorage, Alaska 99503 for the disposal of wastes from the Donlin Gold Project (Project) as described in the permit. The Project is proposed to be an open pit, hardrock gold mine located 277 miles west of Anchorage, 145 miles northeast of Bethel, and 10 miles north of the village of Crooked Creek, Alaska (Figures 6.1 and 6.2). This permit is issued 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 January 18, 2019 and expires after January 17, 2024. This permit may be terminated or modified in accordance with AS 46.03.120.

This permit is subject to the conditions and stipulations contained in Sections 1 through 6, and it incorporates by reference the Plan of Operations (PoO) Project Description Donlin Gold Project December 2017, PoO Water Resources Management Plan Donlin Gold Project December 2017, PoO Integrated Waste Management Plan (IWMP) Donlin Gold Project December 2017, PoO IWMP Tailings Management Plan Donlin Gold Project December 2017, PoO IWMP Waste Rock Management Plan Donlin Gold Project December 2017, PoO Integrated Waste Management Monitoring Plan Donlin Gold Project (Monitoring Plan) December 2016 Revision 1. 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. Additionally, the Donlin Gold Reclamation Plan Approval A20196226 (RPA) from Alaska Department of Natural Resources (DNR) is also incorporated by reference.

Gene McCabe
Program Manager
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1 PERMIT COVERAGE & ADOPTED REFERENCES

1.1 COVERAGE

This permit covers disposal and storage of solid and liquid waste to the Tailings Storage Facility (TSF); Class III Municipal Solid Waste Landfills (MSWLFs); American Creek Valley waste rock facility (WRF); ACMA and Lewis mine pits; and the Upper and Lower Contact Water Dams as shown in Figures 6.2 and 6.4. In addition to the disposal of wastes listed above, this permit applies to hazardous chemical storage and containment, reclamation and closure activities related to ore, waste rock and overburden stockpiles, TSF, and mine pits, and financial responsibility to fund reclamation, closure and post-closure activities. This permit also covers monitoring requirements for groundwater, surface water, mine pits, waste rock and ore stockpiles, and seepage collection systems. This permit does not authorize the discharge of wastewater to surface water. Discharge to surface water from the Donlin Gold Project is authorized under Alaska Pollutant Discharge Elimination System (APDES) permits.

1.1.1 This permit covers disposal of waste and monitoring at the sites listed under this subheading. See Figures 6.2, 6.3, and 6.4.

1.1.1.1 Tailings Storage Facility (TSF)

The TSF will be a fully lined impoundment located in the Anaconda Creek Valley, 2.2 miles south of the open pits. Plans are to construct the TSF dam in six stages reaching an ultimate height of 471 feet as measured from the downstream toe to the crest. The final TSF footprint would cover 2,351 acres.

1.1.1.2 American Creek Valley Waste Rock Facility (WRF)

The ultimate configuration of the WRF would cover about 3.5 square miles and contain approximately 2,460 million tons of waste rock. It will be constructed in the American Creek Valley, immediately east of the open pit. Large loader and truck tires that are not returned to the vendor are authorized for burial in a designated area of the WRF.

1.1.1.3 Disposal Trenches subject to Class III Municipal Solid Waste Landfill Regulations

Non-hazardous, general mine refuse (packaging, non-recyclable empty containers, non-putrescible refuse, etc.) are placed directly into the onsite landfill trenches in a designated area of the WRF. Putrescibles are incinerated and their ashes disposed in the landfill. Unusable small vehicle tires that are not returned to the vendor are authorized for disposal in the landfill.

1.1.1.4 Lewis and ACMA Pits

Lewis and ACMA pits will intersect eventually creating a single contiguous pit. Once mining ceases in the ACMA Pit, it will be partially backfilled with waste rock from the Lewis Pit. At closure, both pits will be partially backfilled with waste rock for subaqueous disposal and a pit lake established.

1.1.1.5 Lower and Upper Contact Water Dams

Lower and Upper Contact Water Dams (CWDs) will contain surface and
seepage water from the WRF, pit dewatering water, surface water from the pit and runoff and will be used primarily to supply process water to the mill. The Lower CWD will be located in American Creek Valley below the WRF, and the Upper CWD will be located in American Creek Valley above the WRF.

1.1.1.6 Mine Water Monitoring Stations

The IWMP designates locations for monitoring mine-impacted water quality and quantity. Data collected aid in the management of mine water and maintenance of water balance models.

1.1.2 This permit also contains geochemical monitoring requirements for waste rock and tailings to characterize metal leaching and acid rock drainage potential.

1.1.3 This permit contains stipulations on chemical storage and containment.

1.1.4 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

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. Department-approved plans adopted by reference in this section must be updated within 90 days of permit issuance 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 from the Plan of Operations (PoO):

1.2.1  Project Description Donlin Gold Project December 2017,

1.2.2  Water Resources Management Plan Donlin Gold Project December 2017,

1.2.3  Integrated Waste Management Plan (IWMP) Donlin Gold Project December 2017,

1.2.3.1  IWMP Tailings Management Plan Donlin Gold Project December 2017,

1.2.3.2  IWMP Waste Rock Management Plan Donlin Gold Project December 2017,

1.2.4  Integrated Waste Management Monitoring Plan Donlin Gold Project (Monitoring Plan) December 2016 Revision 1, and

1.2.5  Alaska Department of Natural Resources (DNR) Reclamation Plan Approval A20196226 (RPA), January 18, 2019.
2 SPECIFIC CONDITIONS

2.1 SITEWIDE WASTE DISPOSAL

While this permit is in effect and subject to the limitations in Section 2.1.1, the permittee is authorized to dispose of solid and liquid wastes in permit-designated treatment works at the Donlin Gold project site. Under 18 AAC 70.010(c), water quality standards promulgated at 18 AAC 70 do not apply to a treatment works authorized by the department and applicable water quality criteria “must be met in adjacent surface water and groundwater at and beyond the boundary of the treatment works.” Treatment works are defined in AS 46.03.900(33) as “a plant, disposal field, lagoon, pumping station, constructed drainage ditch or surface water intercepting ditch, incinerator, area devoted to sanitary landfills, or other works installed for the purpose of treating neutralizing, stabilizing, or disposing of sewage, industrial waste, or other wastes.”

The following components of the project are approved for the disposal of solid and liquid wastes and approved as treatment works as per 18 AAC 70.990(33) and not subject to WQS per 18 AAC 70.010(c): TSF; WRF; disposal trenches located within the WRF, ACMA and Lewis mine pits; and the Upper and Lower CWDs (see Permit Part 1.1.1, Figures 6.2 – 6.4 and Appendix C of Response to Comments).

Approved treatment works within the American Creek drainage include the WRF; disposal trenches located within the WRF, ACMA and Lewis mine pits; and the Upper and Lower CWDs, the mine pit area, and downstream groundwater collection points of the treatment works within the American Creek drainage. Approved treatment works within the Anaconda Creek drainage include the entire TSF area downstream to the seepage recovery system (SRS) pond, including groundwater underlying the TSF to the SRS monitoring/interceptor wells. This permit also requires collection of seepage below the TSF Dam, Lower CWD, and Upper CWD, as well as authorizes disposal of sludge produced from mine water and domestic wastewater treatment to the TSF. Discharge of wastewater to the mine pit at closure is allowed for storage before treatment and discharge under APDES Permits.

2.1.1 Limitations

2.1.1.1 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. As stated in Section 1.1, this permit does not authorize discharges to surface water from the Donlin Gold Project.

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

2.1.1.3 The permittee shall implement a program to minimize the likelihood that any area containing contaminated water within the facility boundary becomes attractive to waterfowl, shorebirds, or other wildlife.

2.1.1.4 Activities at the Donlin Gold Project, which will cause a significantly greater amount of waste to be generated and disposed in the permitted facilities, require the prior approval of the department. This condition excludes mining and milling rates which are not considered in this section.

2.1.1.5 The following materials shall not be disposed onsite unless approved by the
department in writing. However, prohibitions under this section exclude any waste derived from the beneficiation process, which may be disposed in the TSF.

2.1.1.5.1 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; or

2.1.1.5.2 Contaminated soils, spill booms, and liners used for the containment of spilled hazardous substances, chemicals used in the cleanup of hazardous substance spills, or other hazardous substance spill cleanup wastes.

2.1.1.6 Wash water from the maintenance and truck shops and truck wash may be discharged into the TSF. However, oily water must go through an oil/water separator, and the treated water may not have a sheen prior to entering the TSF. Dry methods of cleanup shall be used for initial cleanup of oil spills in the maintenance shops.

2.1.1.7 If monitoring as specified in Section 2.5 is required, the water in the groundwater monitoring wells must not show a statistically significant increase, according to 18 AAC 60.830(h), in concentration above the background quality. When a statistically significant increase in a concentration of a constituent above a WQS is discovered, corrective action outlined in Section 2.7 must be implemented.

2.1.1.8 The limitations in Sections 2.1.1 and Error! Reference source not found. do not preclude, and authorization is hereby given for, disposal of non-hazardous solid wastes such as: (i) settled solids from sumps, ditches, and degritting basins; (ii) incinerator ash and residue; (iii) ash from combustion of scrap wood material; (iv) iron (drill steel, balls, empty cans, etc.); (v) empty plastic and glass containers; (vi) inert domestic waste; (vii) construction debris; (viii) tires; (ix) spill cleanup debris approved by the department including mill remediated residual ore and soil; (x) non-terne plated used oil filters that have been gravity hot-drained; and (xi) such other material as would otherwise be disposed of in a disposal trench without special handling.

2.1.1.9 Wastewater may be disposed to the mine pit at closure provided that the department determines that there will not be harmful impact on offsite water quality.

2.1.1.10 The department may set or modify permit conditions based on monitoring results or changes in facility processes in accordance with permit amendment or modification procedures.

2.2 DISPOSAL TRENCHES

2.2.1 The permittee shall comply with the IWMP, as well as the following permit conditions, for disposal of incinerated solid waste and non-hazardous waste in disposal trenches in the WRF. Additional modifications may be requested, but
must be authorized by the department before that modification is effective.

2.2.2 Ensure that all operations will accommodate the waste volume and are done in a manner that will facilitate closure when the landfill is closed.

2.2.3 Ensure to the extent practicable that surface water runoff from outside the facility does not flow onto the facility, and over, into or through uncovered or covered solid wastes by constructing and maintaining diversion structures such as ditches or berms as needed.

2.2.4 Ensure that the site is managed in such a way as to prevent attracting wildlife to the facility. To reduce wildlife attraction wastes will be stored in suitable containers prior to incineration, burning, or placement in the disposal trench or cell.

2.2.5 Ensure that the bottom of the waste disposal trench or cell is a minimum of ten feet above the high groundwater level or at least two feet above the natural ground surface.

2.2.6 The permittee shall comply with the following conditions at disposal trenches:

2.2.6.1 Prohibit disposal of hazardous and other wastes as listed in Section 2.1.1.5 unless written permission is obtained from the department,

2.2.6.2 Prohibit disposal of uncombusted household waste,

2.2.6.3 Ensure that only ash or incinerator residual waste and inert waste as needed are disposed at these sites. Putrescible wastes may not be disposed of at these sites.

2.2.6.4 Prohibit the disposal of non-incinerated sewage sludge under Section 2.2.8 unless it is deposited into a separate trench or cell, containing only sewage sludge and handled in accordance with 18 AAC 60.365. Under 18 AAC 60.365(c), non-incinerated sewage sludge may not be placed in the trench or cell if it contains “free liquids.” Non-incinerated sewage sludge placed in a trench or cell must be buried at the end of the day to meet the vector reduction requirement of 40 C.F.R. 503.33 (b)(11) and adopted by reference in 18 AAC 60.505.

2.2.6.5 Prohibit disposal of acute hazardous waste containers unless empty and triple-rinsed as required by 18 AAC 60.990(157).

2.2.6.6 Prohibit discharge of firearms at the facility other than for use in wildlife hazing activities,

2.2.6.7 Prohibit disposal of lead-acid vehicle batteries at the landfill site. Temporary storage in leak-proof, covered containers prior to transport to an acceptable recycle or disposal site is permitted.

2.2.6.8 Prohibit regular disposal of economically salvageable or recyclable materials, including, but not limited to: prefabricated buildings, vehicles, drums, tankage, major equipment components, and major scrap components.

2.2.6.9 Prohibit the disposal of regulated asbestos containing materials at this site.
2.2.6.10 Consolide and compact all loose refuse and cover with a minimum of six inches of compacted cover material as needed to prevent blowing litter.

2.2.6.11 Ensure the wastes placed in the disposal cell or trench are compacted in four-foot increments.

2.2.6.12 Apply at least 12 inches of intermediate cover material to any portion of the landfill that will be inactive for a period of 90 days or more. The intermediate cover must be applied within seven days after the waste is last deposited in the inactive area, and graded to prevent water from ponding.

2.2.6.13 Maintain a minimum separation of 50 feet between the designated portion of the landfill and any surface water drainage feature (e.g., swales, seasonal ponds) or the facility boundary.

2.2.6.14 Ensure that the maximum landfill working face width shall not exceed 200 feet. The maximum height of the working face shall not exceed 10 feet.

2.2.6.15 Ensure the working face is kept as small as practical to reduce the potential for windblown litter.

2.2.6.16 Ensure that solid wastes are not placed in surface waters.

2.2.6.17 Ensure waste, leachate, or eroded soil from the facility does not cause an offsite exceedance of the WQS set out in 18 AAC 70.

2.2.6.18 Oil filters must be hot drained and crushed or incinerated prior to disposal.

2.2.6.19 Ensure that non-salvageable drums have been emptied of fluids prior to crushing and burying. All fluids removed from the drums prior to their placement in the landfill shall be properly disposed according to the permit.

2.2.6.20 Maintain positive control of all persons who are within the landfill boundaries and that refuse will be deposited in approved locations. Dumping in unauthorized areas violates conditions of this permit.

2.2.6.21 Collect all windblown and littered refuse from within the disposal site and along the entrance road and return it to the active disposal trench or cell, for burial. All littered wastes on lands within 500 feet of the site, whether windblown or dumped, shall be collected and disposed of at a frequency necessary to prevent this litter from becoming an aesthetic nuisance.

2.2.6.22 Close the solid waste landfill trenches or cells within 60 days after waste is last deposited in that area, using a soil material at least two feet thick and graded to prevent water from ponding.

2.2.6.23 Shall not place solid waste in water in the solid waste landfill facilities, and shall not allow solid waste to wash or blow away from the facility.

2.2.7 The permittee shall limit burning at the disposal trenches and:

2.2.7.1 Prohibit burning on the working face and immediately extinguish all fires that occur on the working face. Notify the department’s Division of Environmental Health, Fairbanks, at (907) 451-2108, if any fires occur on the working face.

2.2.7.2 Prohibit items that generate black smoke from being burned, such as tires and
plastics.

2.2.7.3 Ensure that burning of wood, paper and paper products are kept at least 100 feet from the working face. Burning in the landfill area shall be done in a burn box or burn cage.

2.2.7.4 Ensure an attendant is on duty during burning operations at the landfill.

2.2.7.5 Place no more than one ton of ash in the landfill per day, on an annual average.

2.2.8 Incineration

2.2.8.1 When there is a change in the incinerator waste stream or at least annually, the permittee shall collect a composite sample of ash, and analyze it for metals using the Toxicity Characteristic Leaching Procedure. A change of waste stream includes any modification to the sewage treatment system affecting the composition of sewage solids. A composite sample consists of ash collected over a three week period including ash from the incineration of typical quantities of sewage sludge.

2.2.8.2 During the last year of this permit, the permittee shall analyze a composite sample of incinerator ash, as defined above, for polychlorinated biphenyls.

2.2.8.3 When incinerating sewage solids and municipal solid waste in a solid waste incinerator, it must be mixed, and the portion of municipal solid waste must constitute more than 30 percent of the total weight when sewage solids are included.

2.2.8.4 The permittee shall ensure that the location and volume of waste placed in the landfill is surveyed annually and recorded.

2.2.8.5 When a trench or cell reaches capacity, the following information shall be recorded on the annual survey:

2.2.8.5.1 Total volume of waste placed in the trench or cell,
2.2.8.5.2 Geographical boundary of the trench or cell,
2.2.8.5.3 Elevation of final waste placement, and
2.2.8.5.4 Depth of waste placed in the trench or cell.

2.3 SITE CONSTRUCTION, MAINTENANCE, & OPERATION

2.3.1 General

2.3.1.1 Changes that may have a significant impact on mine closure, reclamation, or surface or groundwater quality; information on engineering changes to the mill that may affect water quality or waste characteristics; new waste treatment processes; changes to solid waste disposal facilities; changes to ground and surface water interception, conveyance or monitoring systems; or the addition of new waste streams discharging to TSF, pits, or WRF that could significantly change the quality or increase the quantity of pollutants in a waste stream must be submitted to the department and approval must be obtained prior to any such changes or discharges.
2.3.1.2 The permittee shall develop the site 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. Pollution prevention concepts shall be incorporated into operations plans for the project.

2.3.1.3 The permittee shall construct and maintain seepage collection systems below the TSF Dam and control seepage in accordance with plans approved by the department. The TSF will be constructed with a dedicated seepage recovery system. The open pit dewatering system will act as the seepage recovery system for seepage escaping facilities in the American Creek drainage, which includes the Upper and Lower CWDs. These seepage collection systems shall be constructed and maintained such that all seepage and runoff water from these areas will be captured and pumped back to containment or to one of the mine pits as approved in the RPA.

2.3.1.4 The TSF Dam and Lower and Upper CWDs, and their appurtenances must be constructed in conformance with the Certificate of Approval to Construct a Dam and operated in conformance with the Certificate of Approval to Operate a Dam to be issued or issued by DNR, Division of Mining, Land and Water, Alaska Dam Safety Program.

2.3.1.5 Freeboard at the TSF shall be maintained to minimize overtopping as indicated in the Project’s dam operation and maintenance manual as approved by DNR, Division of Mining, Land and Water and the Alaska Dam Safety Program.

2.3.1.6 The permittee shall ensure that wastes are deposited into the TSF, pits, and waste rock disposal areas in a manner that will not damage or otherwise jeopardize the integrity of the containment of the those areas.

2.3.1.7 The permittee shall not dispose of waste materials in quantities exceeding the design capacity of the disposal facilities.

2.3.1.8 The permittee shall control and treat surface water, groundwater, and seepage from the mining and milling/processing areas as necessary to prevent causing downgradient, offsite, water quality exceedances in waters of the State.

2.3.1.9 The permittee shall use reasonable measures to control dust and particulates that arise from the TSF, WRF, pits, and handling and transport facilities.

2.3.2 Secondary Containment

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

2.3.2.2 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. For a given containment area, secondary containment must provide a storage volume greater than or equal to 110 percent of the largest tank or the total volume of permanently manifolded 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.
2.3.3 Notification

2.3.3.1 The permittee shall notify the department in writing at least 15 days before the introduction of a new chemical into the process or waste treatment streams that could significantly change the quality or increase the quantity of pollutants in a waste stream(s). Safety Data Sheets on such new chemicals must be forwarded to the department at time of notification and maintained onsite. Introduction of the new chemical into the process requires written department approval.

2.3.3.2 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.

2.3.3.3 With respect to any department approved change as described in Section 2.3.3.2, the permittee must submit to the department within 90 days after completing construction:

2.3.3.3.1 As-built drawings of the process components showing changes potentially affecting performance as required in 18 AAC 72.600,

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

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

2.3.4 Fuel and Hazardous Substances

2.3.4.1 The permittee shall design and install all process piping and chemical mix tanks to allow for routine inspections for leaks. Mill reagent piping outside of the mill building must not be buried unless secondary containment is used that provides the ability to inspect for leaks.

2.3.4.2 The permittee shall maintain fuel handling and storage facilities in a manner that will minimize the discharge of hazardous substances.

2.4 MODIFIED LIMITS

Site Specific Method Detection Limit (MDL) and Minimum Level of Quantification (ML) for Weak Acid Dissociable (WAD) Cyanide Concentrations

2.4.1 During the life of this permit, a new or revised site specific MDL for WAD cyanide unique to a site specific water chemistry may be established in accordance with 18 AAC 70.020(c)(7) and EPA guidance document no. EPA-821-B-04-005 for a pollutant present in this discharge. Upon the effective date of the department-approved MDL, this permit is automatically modified to require reporting of measurements at or above the approved MDL.

2.4.2 During the life of this permit, a new or revised site specific ML for WAD cyanide unique to a site specific water chemistry may be established in accordance with 18 AAC 70.020(c)(7) and EPA guidance document no. EPA-821-B-04-005 for a pollutant present in this discharge. Upon the effective date of the department-
approved ML, this permit is automatically modified for compliance purposes in accordance with the detection level specified in the approved ML. Exceedance of a ML shall be reported according to Section 2.6.1.

2.4.3 Values between the MDL and ML provide a margin of safety indicating increasing trends prior to any exceedances. Based on the rate and magnitude of a trend, the department may require corrective action according to Section 2.7.2 to prevent environmental harm. When lab results are between the MDL and ML, the permittee shall verbally notify the department within 60 days of the end of the calendar quarter when it occurred and provide written notification within 7 days of verbal notice.

2.5 MONITORING

The Monitoring Plan dated December 2016 Revision 1 submitted by Donlin Gold and approved by the department, is incorporated into this permit. Future department-approved changes to project monitoring will be included as modifications to the Monitoring Plan and do not require re-issuance or modification of this permit. The Monitoring Plan shall contain monitoring procedures to include the following and must be updated within 90 days of permit issuance or prior to commencing facility, as needed, to conform to the permit.

2.5.1 Required monitoring listed below and associated frequencies of the Monitoring Plan are included by reference in this permit:

- Process water management,
- Surface water sampling
- WRF management,
- TSF management,
- Disposal trenches,
- Mining and Milling Activities,
- Reclamation,
- Wildlife, and
- Pit lake and spillways.

2.5.2 Visually monitor the facilities 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.

2.5.3 Monitor surface and groundwater near the site to ensure that WQS or natural conditions are protected and that sample results are statistically valid.

2.5.4 Water chemistry analytical methods employed must be sensitive enough to determine compliance with applicable WQS.

2.5.5 Water quality and flow monitoring that accounts for process water discharged to the TSF, process water recycled to the mill, water pumped from sumps into the pit, and any water directed to the TSF, CWDs, pit, or another water treatment works, and data necessary to maintain facility water balances.

2.5.6 The permittee shall conduct monitoring at disposal trenches:
2.5.6.1 Visually monitor the site each month for signs of damage or potential damage from settlement, ponding, leakage, erosion, or operations at the site to ensure the active landfills are being operated according to the most recent department-approved landfill standard operating procedures. Record the inspection results and maintain them in the facility's operating record for review by department staff during inspection.

2.5.6.2 Maintain a set of site development and use plans and submit an updated copy to the department with the annual report.

2.5.6.3 Photograph the disposal site:
   2.5.6.3.1 As prepared for waste disposal,
   2.5.6.3.2 At least once per year during waste deposition,
   2.5.6.3.3 After final cover has been applied, and
   2.5.6.3.4 After revegetation during the summer following closure, as practicable.

2.5.7 The permittee shall maintain a log of all wastes, disposed into the TSF, pits, and WRF. The log shall include the dates of disposal, estimated amount of waste, a description of the waste, and any required sampling or analysis performed on the waste. A summary shall be included in quarterly reports required in Section 2.6.2.

2.5.8 Groundwater and surface water monitoring and corrective action shall be in accordance with Section 2.7, 18 AAC 60 Solid Waste Management Regulations, and the current Monitoring Plan and quality assurance project plan (QAPP).

2.5.9 Maintenance of inspection and sampling logs, and procedures for processing, consolidating, and reporting inspection and sampling data shall be in conformance with the current Monitoring Plan and QAPP.

2.5.10 The department may modify monitoring requirements, including the establishment of additional compliance points in response to trends showing changes in the concentration or load of parameters being monitored.

2.5.11 If the permittee monitors any influent, effluent, receiving water, or solid waste characteristic identified in the Monitoring Plan, more frequently than required, the permittee shall notify the department that the additional monitoring has occurred in the next quarterly report after the monitoring has occurred. The results of such monitoring shall be available for inspection by the department, and the permittee shall provide copies of the results to the department upon request.

2.5.12 Signs of stress to vegetation and wildlife associated with facility activities must be monitored.

2.5.13 The QAPP shall ensure water compliance samples are analyzed by a laboratory that follows EPA-approved procedures, quality control requirements, reporting and documentation procedures.

2.5.14 The permittee must develop a QAPP for all sampling required by this permit. The QAPP must be completed before the latter of (i) 90 days of the effective date of this permit or (ii) 90 days prior to commencing facility construction and made available.
upon request.

2.5.15 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.

2.5.16 Throughout all sample collection and analysis activities, the permittee must use chain-of-custody procedures described in the QAPP.

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

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

2.6 REPORTING

2.6.1 When a statistically significant increase in the concentration of a constituent above a WQS is discovered at a groundwater or surface water monitoring location, or if noncompliance with a permit requirement 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 2.7.

2.6.2 The permittee shall provide the department with quarterly monitoring reports summarizing inspection and monitoring results required in Section 2.5. Reports shall satisfy the following conditions.

2.6.2.1 Due Dates - Reports for the first three calendar quarters are due within 60 days after the quarter ends, and the report for the fourth calendar quarter shall be submitted by March 1st of the following year.

2.6.2.2 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.

2.6.2.3 Content - Reports shall contain a narrative portion discussing data and information collected during the preceding quarter.

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

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

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

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

2.6.2.4.4 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.
2.6.2.4.5 Formatting shall allow addition of new data to each graph’s cumulative data when producing the next quarterly report.

2.6.2.4.6 For graphical purposes, non-detect values shall be plotted at one half the MDL, and values between the ML and MDL shall be plotted at the value of the qualified measurement.

2.6.3 Annual Report - In addition to satisfying the requirements of Section 2.6.2, the fourth calendar quarter report serves as the annual report. The annual report shall:

2.6.3.1 Be submitted to the department by March 1st of the following year;

2.6.3.2 Contain an electronic copy (preferably Excel) of the water quality data for the reporting year, including the past five years’ data, if available, and may contain all historic 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; and

2.6.3.3 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.

2.6.4 The permittee shall provide the department with copies of any amendments to the PoO, when they affect the waste disposal operations authorized by the permit.

2.6.5 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.

2.6.6 Any onsite wildlife casualties associated with facility activities shall be reported to appropriate State agencies, including the department, within one working day of discovery.

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

Dept. of Environmental Conservation
Division of Water
610 University Ave.
Fairbanks, AK 99709
(907) 451-2136

2.6.8 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.

2.7 CORRECTIVE ACTIONS

2.7.1 The permittee shall comply with 18 AAC 60.815 if the visual monitoring program in Section 2.5.2 discovers damage or potential damage to the waste disposal-related facility that could lead to water quality violations.
2.7.2 When a statistically significant increase in a constituent concentration above a WQS is discovered in any of the water sampling locations, 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.

2.7.3 For a single constituent, when a statistically significant increase in concentration above its WQS is discovered at a water monitoring station or if noncompliance with a permit requirement is discovered, the permittee shall:

2.7.3.1 Orally notify the department no later than the end of the next working day;

2.7.3.2 Determine the extent of the exceedance or noncompliance;

2.7.3.3 In consultation with the department and documented in writing, implement a plan to restore compliance and determine the cause of the exceedance or noncompliance;

2.7.3.4 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

2.7.3.5 Implement the corrective actions as approved by the department.

2.8 SUSPENSION OF OPERATIONS

2.8.1 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 before the latter of (i) 90 days after the effective date of the permit or (ii) 90 days to prior to commencing facility construction.

2.8.2 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.

2.8.3 No later than ten days after operations have been suspended, the permittee shall submit a detailed and updated suspension of operations plan that supersedes the suspension of operations conceptual plan required by Section 2.8.1 with current information and specific details. The suspension plan shall address the following:

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

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

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

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

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

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

2.8.3.7 Procedures for maintaining and monitoring the TSF dam and Lower and Upper CWDs and site-wide water balance.

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

2.8.5 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.

2.8.6 During suspension of operations, the permittee shall:

2.8.6.1 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 TSF dam and Lower and Upper CWDs as specified by the current Certificate of Approval to Operate a Dam and the suspension plan.

2.8.6.2 Continue monitoring and reporting activities of all active portions of the site as specified by this permit or the suspension plan.

2.8.6.3 Continue reclamation and corrective action requirements under the RPA in light of the nature of the closure.

2.8.7 Written department approval is required before resuming operations after a period of temporary closure.

2.9 TERMINATION OF MINING, MILLING & PROCESSING

2.9.1 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.

2.9.2 Termination of mining and milling at the site must be implemented and completed according to the conditions of this permit and with the RPA, which is incorporated by reference into this permit.

2.9.3 Although this permit is limited to a period of five years from the date of issuance (unless administratively extended), it is the intent of the department to re-issue this permit with the following conditions to apply to waste disposal facility reclamation, post-cessation treatment and monitoring and post closure care and monitoring. These conditions may be updated, modified or amended by the department as necessary to address new information and future changes to the facility, reclamation and closure plans, regulations or other pertinent considerations for long-term environmental
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protection. Closure of the waste disposal facilities will be complete when the following criteria are met:

2.9.3.1 Department-approved covers are installed and drainage channels are constructed and stable;

2.9.3.2 A stable vegetative cover is established on the waste rock, re-contoured areas, and other infrastructure or other facilities as prescribed in RPA and incorporated by reference into this permit; and

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

2.9.4 Closure must be achieved before terminating any care and maintenance activities required by Section 2.8.6 and the approved suspension plan if a period of suspended operations immediately preceded termination of mining and milling.

2.9.5 The permittee shall maintain the facility correcting any erosion or settlement of the TSF, WRF, 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.

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

2.9.7 Post-closure monitoring of 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 2.9.3. Post-closure monitoring shall be performed according the RPA, which is incorporated into this permit by reference. This schedule and the parameters monitored may be modified by the department based on the monitoring results received.

2.9.8 The permittee shall assess the conditions at the facility and respond accordingly throughout the reclamation and post-closure care periods. At the end of the post-closure monitoring period (beginning when active wastewater treatment is concluded), the department will determine whether post-closure care and monitoring should be extended beyond 30 years based upon the information collected by that time.

2.10 FACILITY AUDIT

A periodic third-party environmental audit of the Donlin Gold facility shall be completed during the final year of the permit term or sooner if final closure starts during the permit term. However, the field inspection portion of the audit shall be conducted during the snow-free season the year before permit expiration.

The purpose of the facility audit is to verify Donlin Gold’s compliance with applicable environmental laws associated with this permit by evaluating both Donlin Gold management and DEC permit administration for reasonable assurances that the facility and environmental controls are functioning as intended. The environmental audit shall include an evaluation of the adequacy of the approved financial assurance.

The scope of work associated with this facility audit shall be developed by Donlin Gold with guidance from DEC and DNR and must be approved by DEC and DNR prior to its
use in soliciting bids from third-party contractors. The third party contractor should be mutually agreed on by the State and Donlin Gold, 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 Donlin Gold.

The final facility audit report is due 30-days prior to the expiration of this permit. DEC approval of the final facility audit report is required for satisfaction of this permit requirement.

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 or work which would disturb such resources, is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, DNR (907) 465-4563, 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 going forward from the date of adoption. Authorized discharges made prior to any standards change or adoption will not be subject to ex post facto clean up requirements.

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 AUTHORITY

Under AS 46.03.100(f), 18 AAC 15.090, and 18 AAC 60.265, the department is required to secure proof of financial responsibility for reclamation and long term care and maintenance, including wastewater treatment and monitoring at the facility.

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 suspension of operations, reclamation and closure, near and long term wastewater treatment, and monitoring of all mine facilities, including the mill site, TSF, WRF, ACMA and Lewis Pits, overburden and ore stockpiles, and related facilities. 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 annual report required in Section 2.6.3.

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 before breaking ground to construct mine facilities. 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 or if annual adjustment for inflation is needed.

4.2 AMOUNT OF FINANCIAL RESPONSIBILITY

DNR issues a Reclamation Plan Approval to Donlin Gold. Development of the RPA was conducted in consultation with the DEC. The RPA was finalized simultaneously with this permit, and it is automatically adopted by reference into this permit. The amount of financial responsibility, satisfying AS 46.03.100(f), 18 AAC 15.090, and 18 AAC 60.265, established in the RPA is adopted by and applies to this permit.
5 GLOSSARY OF TERMS

AAC  Alaska Administrative Code
APDES  Alaska Pollutant Discharge Elimination System
AS  Alaska Statutes
DEC  Alaska Department of Environmental Conservation
DNR  Alaska Department of Natural Resources
EPA  U.S. Environmental Protection Agency
IWMP  Integrated Waste Management Plan
MDL  Method Detection Limit
ML  Minimum Level of Quantification
MSWLF  Municipal Solid Waste Landfill
Permittee  Donlin Gold LLC
PoO  Plan of Operations
Project  Donlin Gold Project
QAPP  Quality Assurance Project Plan
RPA  Reclamation Plan Approval
TSF  Tailings Storage Facility
WAD  Weak Acid Dissociable
WQS  Alaska Water Quality Standards
WRF  American Creek Valley Waste Rock Facility
6 FIGURES

6.1 PROJECT LOCATION MAP

![Map of Donlin Gold Project location](image-url)
6.2  PROJECT OVERVIEW
6.3 PITS, WASTE ROCK FACILITY, AND MILL SITE
6.4 SURFACE WATER MONITORING SITES

- Compliance Monitoring Well
- Monitoring/inception Well
- Surface Water (SW) Site
- Water Supply Well
- Water Treatment Plant

MONITORING/SAMPLING LOCATIONS OPERATIONS
DONLIN GOLD PROJECT

SCALE:
0 0.25 0.5 1 mi
0 0.4 0.8 1.6 km

FIGURE: 6.4