



October 14, 2020

Kindra Geis
Natural Resource Specialist III
Water Resources Section
Alaska Department of Natural Resources
3700 Airport Way
Fairbanks, AK 99709

RE: LAS 29168 Upper Contact Water Dam – American Creek; LAS 29169 Snow Gulch Freshwater Dam; LAS 29170 Lower Contact Water Dam – American Creek; LAS 29171 Jungjuk Port Site Surface Water – Kuskokwim River; LAS 29172 Construction Camp, Shop, Administrative Facilities, Warehouse, & Mill; LAS 29173 Pit Perimeter and In-Pit Dewatering Wells and Associated Drainage Structures; LAS 29174 Getmuna Creek Surface Water; LAS 29175 TSF Interceptor and Seepage Collection Wells – Anaconda Creek; LAS 29176 Jungjuk Port Site Well; LAS 29177 Tailings Storage Facility – Anaconda Creek; LAS 29178 Permanent Camp Potable Water Well Field; LAS 31477 Crooked Creek Surface Flows and Associated Diversion Structures

Ms. Geis

Donlin Gold LLC (Donlin Gold) would like to update the above referenced applications for water rights for the Donlin Gold Project to reflect project design refinements and including the updated Donlin Gold Water Resources Management Plan, Plan of Operations Vol. II – February 2017. Additionally, we would like to supplement the water rights applications with figures that illustrate the water source and water use locations. Permit application updates are provided in the attached Table 1.

Should you need any further information, please do not hesitate to contact me at (907) 980-2930 or efernandez@dolingold.com.

Sincerely,

Enrique Fernandez
Permitting and Environmental Manager.

Kindra Geis
September 30, 2020

Enclosure: Table 1- Revised Water Source and Water Use Locations
Figure 1 – Water Source locations with projected uses – Mine Area
Figure 2 – Water Source Locations with projected uses – Jungjuk Port and Mine access Road
Figure 3 – LAS 29168 Upper Contact Water Dam – American Creek
Figure 4 – LAS 29169 Snow Gulch Freshwater Dam
Figure 5 – LAS 29170 Lower Contact Water Dam – American Creek
Figure 6 – LAS 29171 Jungjuk Port Site Surface Water – Kuskokwim River
Figure 7 – LAS 29172 Construction Camp, Shop, Administrative Facilities, Warehouse, & Mill
Figure 8 – LAS 29173 Pit Perimeter and In-Pit Dewatering Wells and Associated Drainage Structures
Figure 9 – LAS 29174 Getmuna Creek Surface Water
Figure 10 – LAS 29175 TSF Interceptor and Seepage Collection Wells – Anaconda Creek
Figure 11 – LAS 29176 Jungjuk Port Site Well
Figure 12 – LAS 29177 Tailings Storage Facility – Anaconda Creek
Figure 13 – LAS 29178 Permanent Camp Potable Water Well Field
Figure 14 – LAS 31477 Crooked Creek Surface Flows and Associated Diversion Structures

CC: Dan Graham – General Manager – Donlin Gold LLC.

Table 1- Revised Water Source and Water Use Locations

LAS #	Case File Overview	Water Source	Location of Water Source ¹	Use of Water	Location of Water Use	Method of Taking Water (If known)	Amount of Water	
							Total AFY ²	Months of Use
LAS 29168	Upper Contact Water Dam - American Creek	- Stream (American Creek and Tributaries [Trib.]) - Dam (Upper Contact Water Dam)	S. 25-27, 34, 35 and 36, T23N R49W S. 31 and 32, T23N R48W S. 1-3, T22N R49W S. 5-8, T22N R48W	Mill process water, dust control, fire training and suppression, water treatment plant and discharge to Crooked Creek ³	Mine Site Area ⁴	Dam 3,240 AF ⁵	14,210	Year-round
LAS 29169	Snow Gulch Freshwater Dam	- Stream (Snow Gulch and Tribs.) - Dam (Snow Gulch Freshwater Dam)	S. 25, T23N R49W S. 30, T23N R48W	Mill process water, dust control, fire training and suppression, water return flow to Crooked Creek ⁶	Mine Site Area	Dam 3,243 AF	12,785	Year-round
LAS 29170	Lower Contact Water Dam - American Creek	- Stream (American Creek and Tribs.) - Dam (Lower Contact Water Dam)	S. 25-27, 34, 35 and 36, T23N R49W S. 31 and 32, T23N R48W S. 1-3, T22N R49W S. 5-8, T22N R48W	Mill process water, dust control, fire training and suppression, water treatment plant and discharge to Crooked Creek	Mine Site Area	Dam 7,151 AF	32,581	Year-round
LAS 29171	Jungjuk Port Site Surface Water – Kuskokwim River	River (Kuskokwim River)	NW ¼, S. 29, T20N R49W	Dust control, fire training and suppression	Port and Road Area ⁷	Pump 800 GPM ⁸	637	May-October
LAS 29172	Construction Camp, Shop, Administrative Facilities, Warehouse, & Mill	Groundwater (Wells)	S. 10 and 11, T22N R49W	Mine area potable water, fire training and suppression	Mine Site Area	Pump ⁹	201	Year-round
LAS 29173	Pit Perimeter and In-Pit Dewatering Wells and Associated Drainage Structures	Groundwater (Wells and horizontal drains)	S. 25-27 and 34-36, S023N049W S. 1-3 and 12, T22N R49W	Mill process water, water treatment plant and discharge to Crooked Creek, dust control, fire suppression and training	Mine Site Area	Pump ⁹	3,871	Year-round
LAS 29174	Getmuna Creek Surface Water	Stream (South Fork Getmuna Creek)	S. 34, T21N R50W	Dust control and fire training and suppression	Port and Road Area	Pump 100 GPM	80	May-October

¹ All legal descriptions are provided using the Public Land Survey System (PLSS) and abbreviated as follows: Township (T.); North (N.); Range (R.); West (W.); Section (S.); through (-). All in Seward Meridian.

² AFY = Acre-feet per Year

³ Water return flow to Crooked Creek from the Water Treatment Plant discharge is in the Southwest ¼ of S. 3, T. 22 N., R49 W., SM.

⁴ **Mine Site Area:** S. 24-27, 34-36, T. 23 N., R. 49 W.; S. 30-32, T. 23 N., R. 48 W.; S. 1-5, 8-15, 17-18, 22-24, T.22 N., R.49 W.; and S. 4-9, 17-20, T.22 N., R.48 W.

⁵ AF = Acre-feet

⁶ Water return flow to Crooked Creek from the Snow Gulch Freshwater Dam will be from the dam spillway which discharges to lower Snow Gulch, located in Northeast ¼ of S. 25, T. 23 N., R. 49 W., SM.

⁷ **Port and Road Area:** S. 3,4, 8, 9, 17 and 18, T.22 N., R.49 W.; S. 33, T. 23 N., R. 50 W.; S. 2-4, 11-14, 23, 26 and 35, T. 22N., R.50 W.; S. 2-4, 9, 16, 17, 21-23, 26, 27 and 34, T.21 N., R50 W.; S. 6-8, 16, 17, 21-25, T. 20N., R.50W.; and S. 19, 29 and 30, T. 20 N., R.49 W.; all SM.

⁸ GPM = Gallons per minute

⁹ Pump rate has not been determined

LAS #	Case File Overview	Water Source	Location of Water Source ¹	Use of Water	Location of Water Use	Method of Taking Water (If known)	Amount of Water	
							Total AFY ²	Months of Use
LAS 29175	TSF Interceptor and Seepage Collection Wells – Anaconda Creek	Groundwater and surface waters (Wells and underdrain channels) - SRS Pond	S. 11-14, T22N R49W S. 7, 8, 17- 20, T22N R48W	Interceptor wells; water treatment plant and discharge to Crooked Creek; mill operation	Mine Site Area	16.2 AF	2,841	Year-round
LAS 29176	Jungjuk Port Site Well	Groundwater (Well)	NW ¼, S. 29, T20N R49W	Potable water	NW ¼, S. 29, T20N R49W	Pump ⁹	0.55	May-October
LAS 29177	Tailings Storage Facility – Anaconda Creek	- Stream (Anaconda Creek and Tribs.) - Dam (Tailings Storage Facility)	S. 11-14, T22N R49W S. 7, 8 and 17-20, T22N R48W	Mill process water; dust control; water treatment plant and discharge to Crooked Creek	Mine Site Area	Dam 24,000 AF ¹⁰	39,065	Year-round
LAS 29178	Permanent Camp Potable Water Well Field	Groundwater (Wells)	S. 8, T22N R49W	Potable Water, fire training and suppression	S. 8, T22N R49W	Pump ⁹	50	Year-round
LAS 31477	Crooked Creek Surface Flows and Associated Diversion Structures	- Stream (Crooked Creek drainage and its tribs. [i.e. Ruby Gulch, Queen Gulch Drainage, American Creek Drainage, Omega Creek drainage, Anaconda drainage]) - Groundwater (Dewatering wells, reduction of groundwater discharge to Crooked Creek intercepted by dewatering wells)	S. 23-28, 33-36 T23N R49W S. 30-32, T23N R48W S. 1-5, 8-15, 17-18, 22-24 T22N R49W S. 4-9, 17-20, T22N R48W	Mill process water; water treatment plant and discharge to Crooked Creek; dust control; fire training and suppression	Mine Site Area		26,063	Year-round

¹⁰ Maximum impoundment volume is 366,000 AF