

DIVISION OF MINING, LAND AND WATER
WATER RESOURCES SECTION

www.dnr.state.ak.us/mlw/water/index.htm



Anchorage Office 550 West 7 th Avenue, Suite 1020 Anchorage, AK 99501-3562 (907) 269-8600 Fax: (907) 269-8947	Juneau Office PO Box 111020 400 Willoughby Avenue Juneau, AK 99811-1020 (907) 465-3400 Fax: (907) 586-2954	Fairbanks Office 3700 Airport Way Fairbanks, AK 99709 (907) 451-2790 Fax: (907) 451-2703	For ADNR Use Only Date/Time Stamp <div style="border: 2px solid blue; padding: 5px; text-align: center;"> MAY 13 2013 WATER RESOURCES SECTION ANCHORAGE </div>
For ADNR Use Only LAS # 29173	For ADNR Use Only CID # 49052	For ADNR Use Only Receipt Type WR	

APPLICATION FOR WATER RIGHT

<p>INSTRUCTIONS</p> <ol style="list-style-type: none"> 1. Complete one application for each water source (incomplete applications will not be accepted). 2. Attach copy of executed deed, lease agreement, or other possessory interest document for property where water will be used (applicant must own, lease, or obtain written authorization to use water on property). 3. Attach copy of legal access document (e.g. right-of-way, easement, permit) or application for legal access to water withdrawal point and transport route, if applicable, or copy of request or application for legal access to water withdrawal point. 4. Attach driller's well log for drilled wells (if already drilled and available). 5. Attach sketch, photos, plans of water system, or project description (if applicable). 6. Attach legible map that includes meridian, township, range, and section lines such as a subdivision plat, USGS topographical quadrangle, or borough tax map. Indicate location of water withdrawal, route of water transmission, water use area boundary, points of water use within boundary, and point of water return flow (if applicable). 7. Attach copy of approved ADEC water and wastewater system certificate (if applicable). 8. Attach copy of ADNR fish habitat permit (if applicable). 9. Attach notarized Statement of Beneficial Use of Water form and associated fee, if water system and water use are fully developed, and total water use does not exceed 500 gallons of water per day. 10. Attach completed Coastal Project Questionnaire (if applicable - see page 4). 11. Submit non-refundable fee (see page 4).
--

APPLICANT INFORMATION Pit Perimeter and In-pit Dewatering Wells and Drains			
Donlin Gold LLC Organization Name (if applicable)		Robert Enos Agent or Consultant Name (if applicable)	
Individual Applicant Name (if applicable)		Individual Co-applicant Name (if applicable)	
4720 Business Park Blvd., Suite G-25 Mailing Address	Anchorage City	AK State	99503 Zip Code
(907) 279-0383 Daytime Phone Number	(907) 279-0200 Alternate Phone Number (optional)		
(907)273-0201 Fax Number (if available)	renos@donlingold.com E-Mail Address (optional)		

PROPERTY DESCRIPTIONS

Location of Water Use

Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Attachment A						¼	¼

Location of Water Source

Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Attachment B						¼	¼

Location of Water Return Flow or Discharge (if applicable)

Geographic Name of Water Body or Well Depth	Meridian	Township	Range	Section	Quarter Sections	
					¼	¼

WATER SOURCE

Ground Water

Type (e.g. drilled, dug)	Total Depth (in feet)	Static Water Level (in feet)	Date Completed	Well Production Capacity
Drilled				Attachment C

Surface Water

Type (e.g. stream, lake, spring)	Geographic Name (if named)

METHOD OF TAKING WATER (IF KNOWN)

Pump Pump Intake _____ Inches Hours Working _____ Hours/Day
 Pump Output _____ GPM Length of Pipe _____ Feet (from pump to point of use)

Gravity Pipe Diameter _____ Inches Length of Pipe _____ Feet (take point to point of use)
 Head _____ Feet

Ditch L _____ H _____ W _____ Feet Diversion Rate _____ GPM or CFS

Reservoir L _____ H _____ W _____ Feet Water Storage _____ AF

Dam L _____ H _____ W _____ Feet Water Storage _____ AF

AMOUNT OF WATER

Common Water Uses and Standard Amounts

Type of Use	How Many		Standard Amounts		Total Amount Requested	Months of Use	
						Begin	End
Fully Plumbed Single-family Home (includes irrigation of 10,000 sq. ft.)	#_____Homes	X	500 GPD	=			
Partially Plumbed Single-family Home (no hot water heater)	#_____Homes	X	250 GPD	=			
Unplumbed Single-family Home (hand carry water)	#_____Homes	X	75 GPD	=			
Duplex or Triplex	#_____Bldgs.	X	1000 GPD	=			
Four-plex and Larger Housing	#_____Units	X	250 GPD	=			
Motel or Resort	#_____Rooms	X	150 GPD	=			
Work Camps	#_____People	X	50 GPD	=			
Domestic Irrigation	#_____Sq. ft.	X	250 GPD per 10,000 Sq. ft.	=			
Non-domestic Irrigation	#_____Acres	X	0.5 AFY	=			


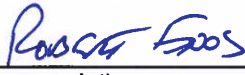
Other Water Uses

Type of Use	How Many		Amount		Total Amount Requested	Months of Use	
						Begin	End
		X		=			
		X		=			

Type of Use	Total Amount Requested	Months of Use	
		Begin	End
Multiple Dewatering Wells (Number of wells yet to be determined) and Horizontal Drains (#?)	5,645 AFY	01/01	12/31
Attachment D			

Expected date for water system and water use to be fully developed *or* date when existing use started 2017.
 Note: Pursuant to AS 46.15.180(a)(1). Crimes, a person may not construct works for an appropriation, or divert, impound, withdraw, or use a significant amount of water from any source without a permit, certificate of appropriation, or authorization issued under this chapter.

11 AAC 93.040 sets out the required information on an application for a water right. 11 AAC 93.050 authorizes the commissioner to decide what additional information is needed to process an application for a water right. This information is made a part of the state public water records and becomes public information under AS 40.25.110 and 40.25.120. Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.

SIGNATURE	
The information presented in this application is true and correct to the best of my knowledge. I understand that per 11 AAC 93.040 and 11 AAC 93.050 additional information may be required by the department to adjudicate this application. Failure to provide requested information could result in this file being closed.	
 <hr/> Signature	5/16/2013 <hr/> Date
 <hr/> Name (please print)	Environmental Permitting Manager <hr/> Title (if applicable)

REFERENCES																														
Measurement Units GPD = gallons per day CFS = cubic feet per second GPM = gallons per minute AF = acre-feet AFY = acre-feet per year (325,851 gallons/year) AFD = acre-feet per day (325,851 gallons/day) MGD = million gallons per day																														
Conversion Table <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">5,000 GPD=</th> <th style="text-align: left; border-bottom: 1px solid black;">30,000 GPD=</th> <th style="text-align: left; border-bottom: 1px solid black;">100,000 GPD=</th> <th style="text-align: left; border-bottom: 1px solid black;">500,000 GPD=</th> <th style="text-align: left; border-bottom: 1px solid black;">1,000,000 GPD=</th> </tr> </thead> <tbody> <tr> <td>0.01 CFS</td> <td>0.05 CFS</td> <td>0.2 CFS</td> <td>0.8 CFS</td> <td>1.5 CFS</td> </tr> <tr> <td>3.47 GPM</td> <td>20.83 GPM</td> <td>69.4 GPM</td> <td>347. 2 GPM</td> <td>694.4 GPM</td> </tr> <tr> <td>5.60 AFY</td> <td>33.60 AFY</td> <td>112.0 AFY</td> <td>560.1 AFY</td> <td>1120.1 AFY</td> </tr> <tr> <td>0.2 AFD</td> <td>0.09 AFD</td> <td>0.3 AFD</td> <td>1.5 AFD</td> <td>3.1 AFD</td> </tr> <tr> <td>0.01 MGD</td> <td>0.03 MGD</td> <td>0.1 MGD</td> <td>0.5 MGD</td> <td>1.0 MGD</td> </tr> </tbody> </table>	5,000 GPD=	30,000 GPD=	100,000 GPD=	500,000 GPD=	1,000,000 GPD=	0.01 CFS	0.05 CFS	0.2 CFS	0.8 CFS	1.5 CFS	3.47 GPM	20.83 GPM	69.4 GPM	347. 2 GPM	694.4 GPM	5.60 AFY	33.60 AFY	112.0 AFY	560.1 AFY	1120.1 AFY	0.2 AFD	0.09 AFD	0.3 AFD	1.5 AFD	3.1 AFD	0.01 MGD	0.03 MGD	0.1 MGD	0.5 MGD	1.0 MGD
5,000 GPD=	30,000 GPD=	100,000 GPD=	500,000 GPD=	1,000,000 GPD=																										
0.01 CFS	0.05 CFS	0.2 CFS	0.8 CFS	1.5 CFS																										
3.47 GPM	20.83 GPM	69.4 GPM	347. 2 GPM	694.4 GPM																										
5.60 AFY	33.60 AFY	112.0 AFY	560.1 AFY	1120.1 AFY																										
0.2 AFD	0.09 AFD	0.3 AFD	1.5 AFD	3.1 AFD																										
0.01 MGD	0.03 MGD	0.1 MGD	0.5 MGD	1.0 MGD																										
Fees required by regulation 11 AAC 05.010(a)(8) <ul style="list-style-type: none"> • \$100 for one single-family residence or duplex, or for water use associated with one single-family residence or duplex • \$1,200 for activities related to oil and gas and associated substances • Fee varies for activities related to locatable minerals, unless the application is filed under 11 AAC 05.010(a)(9)(E)(i) or (9)(F)(i) - <i>contact Water Resources Section for pre-application meeting</i> • Fee varies for hydroelectric power generation - <i>contact Water Resources Section for pre-application meeting</i> • Fee varies for water removal out of a hydrologic unit under AS 46.15.035 or 46.15.037 - <i>contact Water Resources Section for pre-application meeting</i> • \$200 for 5,000 GPD or less for a use not listed above • \$450 for greater than 5,000 GPD and no more than 30,000 GPD for a use not listed above • \$550 for greater than 30,000 GPD and no more than 100,000 GPD for a use not listed above • \$900 for greater than 100,000 GPD for a use not listed above <p>Make checks payable to "Department of Natural Resources."</p>																														
Coastal Zone If this appropriation is within the Coastal Zone, and you are planning to use more than 1,000 GPD from a surface water source or 5,000 GPD from a subsurface water source, you need to submit a completed Coastal Project Questionnaire with this application. For more information on the Coastal Zone, contact the Office of Project Management and Permitting; Anchorage 269-7470, Juneau 465-3562, www.dnr.state.ak.us/acmp/ .																														

Attachment A
IN-PIT AND PIT PERIMETER DEWATERING APPLICATION

LOCATIONS OF WATER USE

<u>Use</u>	<u>Location</u>
Mill Process Water	Section 1, 2, 11, and 12 T22N, R49W; Section 5, 6, 7, and 8 T22N, R48W; and portions of Section 32, T23N, R48W, Seward Meridian
Water Treatment Plant and Discharge to Crooked Creek	Section 2 and 3, T22N, R49W Seward Meridian
Dust Control	Potentially along all unpaved roads including portions of Section 30, 31, and 32, T23N, R48W; Section 25, 26, 27, 34, 35, 36 T23N, R49W; Section 1, 2, 3, 4, 8,9,10, 11, 12,13, 14, 15, 17, 18, and N ½ 22 T22N, R49W; Section 33, T23N, R50W; Section 5, 6, 7, 8, 17, 18, and 20, T22N, R48W; Section 2, 3, 4, 11, 12, 13, 14, 23, 26, and 35, T22N, R50W; Section 3,4,9,16, 21, 22, 27, 33, and 34, T21N, R50W; Section 6, 8, 16, 17, 21, 22, 23, 24, and 25, T20N, R50W; Section 19, 29, 30, T20N, R49W, Seward Meridian.
Fire Training and Suppression	Anywhere needed but primarily in the mill area in S½ Section 9 and N½ Section 16, T22N, R49W, Seward Meridian

Attachment B
IN-PIT AND PIT PERIMETER DEWATERING APPLICATION

LOCATIONS OF WATER SOURCES

<u>Source</u>	<u>Location</u>
In Pit and Pit Perimeter Dewatering and Horizontal Drains	Section 25, 26, 34, 35, and 36 T23N, R49W and Section 1, 2, 3, and 12, T22N, R49W, Seward Meridian

Attachment C
IN-PIT AND PIT PERIMETER DEWATERING APPLICATION

ADDITIONAL DEWATERING WELLS

Locations and Well Driller's Completion Logs

Attachment D
IN-PIT AND PIT PERIMETER DEWATERING APPLICATION
USE AND WATER QUANTITY

This water right is required for the efficient operation of the large scale mining and milling operations at the proposed Donlin Gold Mine. Dewatering of the mine pit area is necessary to provide efficient blasting of ore and waste, safe operating conditions for mine personnel (stable pit walls), and drier ore to minimize frozen chunks and bridging of feeders. The water will be used for as a supplemental water supply to the milling process. Water not used for the mill process will be treated and discharged to Crooked Creek. For a more detailed description of how the water will be used please refer to "Project Description, Plan of Operations – Volume I Donlin Gold Project" (July 2012) and "Water Resources Management Plan, Plan of Operations Vol. II" (July 2012), which were previously submitted to the State of Alaska.

The number of horizontal drains, wells, and individual pumping rates will vary depending on a number of factors such as:

- Phase of the mining operations;
- Some horizontal drains and wells will be mined out and replaced in other areas of the pit or pit perimeter, but within the same aquifer;
- Wells drilled that do not perform as designed will be abandoned and replaced; and,
- Some wells will be cycled to allow recharge for the most efficient dewatering operations.

