

PROPERTY DESCRIPTIONS

Location of Water Use

Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Red Dog Mine Middle Fork Red Dog Creek Bypass System (see attached)						QQ 1/4	Q 1/4

Location of Water Source

Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Red Dog Mine Middle Fork Red Dog Creek Bypass System (see Attached)						QQ 1/4	Q 1/4

Location of Water Return Flow or Discharge (if applicable)

Geographic Name of Water Body or Well Depth	Meridian	Township	Range	Section	Quarter Sections	
Middle Fork Red Dog Creek (See Attached)					QQ 1/4	Q 1/4

WATER SOURCE DESCRIPTION

Ground Water

Type (e.g. drilled, dug)	Total Depth (in feet)	Static Water Level (in feet)	Date Completed	Well Yield (in gpm)

Surface Water

Type (e.g. stream, lake, spring)	Geographic Name (if named)
Stream and surface flow	Tributaries to Middle Fork Red Dog Creek

METHOD OF TAKING WATER (IF KNOWN)

Pump	Pump Intake _____ Inches Pump Output _____ GPM	Hours Working _____ Hours/Day Length of Pipe _____ Feet (from pump to point of use)
Gravity	Pipe Diameter _____ Inches Head _____ Feet	Length of Pipe _____ Feet (take point to point of use) Diversion Rate _____ <input type="checkbox"/> GPM or <input type="checkbox"/> CFS
Ditch	L 13,600 D varies W varies Feet	Diversion Rate 100% flow <input type="checkbox"/> GPM or <input type="checkbox"/> CFS
Reservoir	L _____ D _____ 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
Diversion System 100% of flow(See Attached)					8,204 AFY	Jan	Dec

Expected date for water system and water use to be fully developed **or** date when existing use started _____.
 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. AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). 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. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 – AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

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.

Michael Gonzales M. Gonzales for L. Yesnik

4/11/2022

Signature

Date

Les Yesnik

General Manager, Red Dog

Name (please print)

Title (if applicable)

FEE required by regulation 11 AAC 05.260.

Make checks payable to "Alaska Department of Natural Resources":

- **\$100** for one single-family residence or duplex, or for water use associated with one single-family residence or duplex.
- **\$1,500** for up to 60 hours of staff time, for activities related to oil and gas and associated substances.
- **\$1,500** for up to 60 hours of staff time, for activities related to locatable mining.
- **\$1,500** for up to 60 hours of staff time, for hydroelectric power generation capacity greater than 100 kilowatts.
- **\$1,500** for up to 60 hours of staff time, for water removal out of a hydrologic unit under AS 46.15.035 or 46.15.037.
- **\$250** for 5,000 GPD or less for a use not listed above.
- **\$565** for greater than 5,000 GPD and no more than 30,000 GPD for a use not listed above.
- **\$690** for greater than 30,000 GPD and no more than 100,000 GPD for a use not listed above.
- **\$1,125** for greater than 100,000 GPD for a use not listed above.

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

<u>5,000GPD=</u>	<u>30,000GPD=</u>	<u>100,000GPD=</u>	<u>500,000GPD=</u>	<u>1,000,000GPD=</u>
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
0.02 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

Red Dog Mine Middle Fork Red Dog Creek Bypass Additional Information

Property Descriptions

Location of Water Use				
Meridian	Township	Range	Section	Quarter Sections
Kateel	31N	18W	17	SW & SE
Kateel	31N	18W	19	NE
Kateel	31N	18W	20	Entire Section
Kateel	31N	18W	21	NW & SW
Kateel	31N	18W	29	NE

Location of Water Source				
Meridian	Township	Range	Section	Quarter Sections
Kateel	31N	18W	15	SW
Kateel	31N	18W	16	SE & SW
Kateel	31N	18W	17	SW & SE
Kateel	31N	18W	18	SE
Kateel	31N	18W	19	NE
Kateel	31N	18W	20	Entire Section
Kateel	31N	18W	21	NW & SW
Kateel	31N	18W	22	NW & SW
Kateel	31N	18W	27	NW & SW
Kateel	31N	18W	28	Entire Section
Kateel	31N	18W	29	NE & SE
Kateel	31N	18 W	33	NW & NE
Kateel	31N	18W	32	NE

Location of Water Return Flow or Discharge				
Meridian	Township	Range	Section	Quarter Sections
Kateel	31N	18W	19	NE

Water Source Description

The water bypass system collects water up stream of the Red Dog Mine disturbance area in the Middle Fork Red Dog Creek drainage basin. The bypass system's purpose is to prevent the contact of the water with mineralized rock as the stream passes through the mining area.

Method of Taking water

The bypass system collects precipitation up gradient of the mining area and directs the water flow to a point downstream of the mining area.

Water usages

The use of the water is limited to the diversion of the water away from the mining area.

Total Water requested

100 percent of the drainage flow volume is requested. The volumes vary and are dependent on the precipitation. The diversion collects an approximant 2,461 acre area. Based on an annual precipitation of 40 inches a water right of 8,204 acre feet per year is requested.

Red Dog Mine Middle Fork Red Dog Creek Bypass Location Map

