

Application for Instream Water Right Certificate

DEC 01 2016

SECTION 1: ORGANIZATION INFORMATION AND SIGNATURE

NAME OREGON DEPT. OF FISH AND WILDLIFE DORGON DEPT. OF FISH AND WILDLIFE S03-947-6000 S03-947-6000 S03-947-6202 CELL CELL APPLICATION TO FISH AND WILDLIFE AGENT JUDISTRIAL DR. SE AGENT Information — The agent is authorized to represent the applicant in all matters relating to this application. FISH AND PHONE AGENT JUDISTRIAL DR. SE CELL ANNA PARENHAM STEVENSON / OREGON DEPT. OF FISH AND S03-947-6084 S03-947-6084 S03-947-6084 S03-947-6084 S03-947-6082 CELL CELL CELL STATE PROME FAX ADDRESS 4034 FARRYIEW INDUSTRIAL DR. SE CITY SALEM OR STATE PROME FAX CELL CELL CELL CELL ANNA.P.STEVENSON@STATE.OR.US * By providing an e-small address, consent is given to receive all correspondence from the Department electronically. (Note that paper copies of the Final Grider documents will also be mailed.) Applicant Signature Print Name and Title Date SECTION 2: NOTIFICATION TO DEQ, ODFW, AND PARKS Please indicate the date you notified other state agencies of your intent to file an instream water right applicatio Oregon Department of Environmental Quality was notified on: October 17 2016 Oregon Department of Fish and Wildlife was notified on: October 17.2016 SECTION 3: NOTIFICATION TO AFFECTED LOCAL GOVERNMENTS Please provide copies of letters of your intent to file an instream water right application to each affected loc government within whose jurisdiction the instream use is proposed. Affected local government means any city, county or metropolitian service district formed under ORS Chapter 268 or an association of local governments performing land-use planning functions under ORS 197.190.	Organization Info	rmation		:	: :: :: :: :: :: :: :: :: :: :: :: :: :		<u> </u>
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government within whose jurisdiction the instream use is proposed. Affected local government means any city, county or metropolitan service district formed under ORS Chapter 268 or an association of local governments performing land-use planning functions under ORS 197.190.	Bearing the state of the state	and the second s	and in the second second second second	And an analysis of the Control of th	te and resource the second section for around the second distance of the second distance around the second	mercania ·	
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						ssociation of loc	a governments
	performing land-us	se planning function	ons under	UKS 197.19	0.	:: ::: :	CO. DOM DO NOT COM.
	****					The state of the s	CFWEN

SECTION 4: SOURCE AND REACH

Stream or lake name: South Fork Mill Creek Tributary to: Mill Creek

If the source is a stream, indicate the reach delineated by river mile (the upstream point to the downstream point) of the proposed instream water right:

Beginning at the mouth of South Fork Mill Creek, tributary to Mill Creek, river mile 0.0 in the SESW quarter of Section 22, Township 1 N, Range 12 E W.M. in Wasco County (45.5506, -121.3079) and continuing upstream to the Crow Creek Reservoir Dam at river mile 10.1 in the NENW quarter of Section 20, Township 1 S, Range 11 E W.M. in Wasco County (45.474998, -121.451698).

If the source is stored water that is authorized under a water right permit, certificate, or decree, attach a copy of the document or list the document number (for decrees, list the volume and page, or decree name). _____

If the source is stored water and you do not, or will not, own the reservoir(s), please enclose a copy of your written agreement with the owner of the reservoir to release flows identified in this application.

SECTION 5: PUBLIC USES AND AMOUNTS

The public uses to be served by the requested instream water right are: For the conservation, maintenance and enhancement of aquatic and fish life, wildlife, and fish and wildlife habitat. Applied flows include water for fish and wildlife migration, spawning, nesting, brooding, egg incubation, larval or juvenile development, juvenile and adult rearing and aquatic life. Flow levels will vary based on life cycle and life stage development needs.

The monthly (or half-monthly) flows in cubic feet-per-second (CFS) or acre-feet (AF) or by lake elevation (LE) necessary to support the public uses are:

JAN	Ĵ.	FEB	MAR	APR	MAY	JUN	JUE	AUG.	SEP	OCT	NOV	DEC	Unit
0		0	0	0	0	17	10	10	7	7	7	0	CFS

If this is a <u>multi-agency request</u>, please indicate the monthly (or half-monthly) flows in cubic feet-per-second (cfs) or acre-feet (af) or by lake elevation (le) that are necessary to support the public uses for <u>each category</u> of public use.

USE	J	. F .	M	Α	M	J.	J	A	S	Ο.	N	D	
													CFS
													☐ AF ☐ LE
							_						CFS
			}										│

SECTION 6: DATA, METHODS, AND COMPLIANCE

Please describe the technical data and methods used to determine the requested amounts.

The Oregon Method (Thompson 1972) was used in the Basin Investigations to develop flow recommendations. The Oregon Method is a habitat based method that determines the degree of habitat at different streamflow rates and life stages. It requires repeated measurements at different flows. The criteria cover fish spawning, adult migration, and rearing habitat. The desired flow levels are determined by examining flow vs. habitat at different flow levels. Methods for assessing flow needs for spawning, rearing and passage were described by Thompson (1972) as follows:

- -Spawning and incubation flows were based on transect measurements with species-specific depth, velocity, and substrate criteria. Repeated measurements over a range of flows were used to develop a relationship of total spawning area vs. discharge.
- -Rearing flows were based on repeated measurements, over a range of flows, of the following parameters: adequate depth over key riffles, riffle-pool ratio (i.e. sufficient connectivity between pools), average riffle and pool depths and velocities, and availability of instream cover.
- -Passage flows were based on repeated depth measurements at transects across the shallowest riffles judged most likely to impede upstream migration of adult salmonids. Passage criteria were based on the percentage of adequate depth along the transects as a function of discharge.

Please provide written documentation of how your agency complied with the requirements contained in your own administrative rules for instream water rights, including application of the required methods to determine requested flows.

ODFW followed all procedures laid out in the agency's 635-400-0015 rules- Determination of Instream Flow Measurement Methodologies. Specifically, the Basin Investigation Report (BIR) flows for this instream flow recommendation were based on 'The Oregon Method', an approved method for determining an instream flow requirement. The BIR identifies fish and wildlife resources of the basin, their distribution, limiting factors, harvest, and water requirements. Stream flow recommendations of the BIR are specifically designed to meet the seasonal biological requirements of the basin's fish. These BIR flow recommendations were used in this instream water right application (see attached BIR: "Hood Basin Supplement" Appendix 2 page 18).

ODFW will also coordinate with OWRD instream water rights monitoring (635-400-0025). Specifically, ODFW will coordinate with OWRD to develop monitoring plans for instream water rights and to revise the existing Memorandum of Understanding between the Department and WRD to include issues related to instream water rights, such as measuring, monitoring and enforcement of instream water rights.

References

Thompson, K.E., 1972. Determining stream flows for fish life. Pages 31-50 plus appendices *in* Proceedings of the Instream Flow Requirement Workshop, March 15-16, 1972, Portland, Oregon. Pacific Northwest River Basins Commission.

SECTION 7: WITHIN A DISTRICT

If the reach is located within an irrigation district or other water district, please provide their contact information.

Irrigation District Name None	Address	
City	State	Zip
Water District Name City of The Dalles	Address 1215 West 1st Street	
City The Dalles	State OR	Zip 97058

SECTION 8: REMARKS

Use this space to clarify any information you have provided in the application.

SECTION 9: MAP

WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):



Oregon Water Resources Department Attribute Report

Report Date: Dec 27, 2016

General:

TRSQQ: WM1.00S11.00E20NENE
WM1.00S11.00E17SWSE
WM1.00S11.00E20SWNE
WM1.00S11.00E20SENW
WM1.00S11.00E20NWNE
WM1.00S11.00E20NENW
WM1.00S11.00E17SESW

DLC:

Latitude: 45.4750568714

Longitude: -121.4517522339

Buffer (ft): 1320

Elevation (ft): 2607

Basin Name: Hood

Basin Plan: 2-Wasco

County: Wasco

WM District: 3

WM Region: NORTH CENTRAL

ODFW Region, District: High Desert, Mid-Columbia District

Irrigation District AOI:
Irrigation District, Other:

Dams (Permit): CROW CREEK RESERVOIR (WASCO)

-null

Print Report

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Water	Rights:	: ::			Platcard for WM1.00S11.00E20			:: -: :		: ::		
		· · · · ·			Platcard for WM1.00S11.00E17							
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Rules:

Withdrawn Authority:	
Groundwater Retricted:	
GW Retricted Subunit:	
GW ODEQ Management Area:	
GW Umatilla Muni Wells (5mile):	
Rule 4D:	Rules apply
Division 33 (Area, Watershed,	UPPER COLUMBIA, Mill Creek-Columbia River, Pacific
species):	Lamprey, Coastal Cutthroat Trout, Chinook Salmon, Steelhead,
	Redband Trout
Water Quality Limited Pollutant:	South Fork Mill Creek

R. Mile: 0 to 10.6 HUC4: 17070105

Pollutant: Temperature

Season: NaN

Uses: Salmon and trout rearing and migration

	Status: Cat 4A: Water quality limited, TMDL approved Action: Delisted - TMDL approved DEFENSED
Is in Deschutes Study Area:	RECEVED
Deschutes Zone Impact:	- 1 DEC. O 1 2016.
Deschutes Zone Overlay:	OWRD
Scenic Water Way:	
Hydrography:	
OWRD Streamcode:	04001019000190 - S Fk Mill Cr
	04001019000190240 - Unn Str
	04001019000190280 - Crow Cr
Waterbody Name:	
HUC 10:	1707010504
HUC Watershed:	Mill Creek-Columbia River
WAB Wshed Order:	
WAB Analysis:	SFK MILL CR > MILL CR - AT MOUTH
Streamflow:	OWRD Opportunities: Fair ODFW Needs: High
	Combined Priority: Not a priority
Gaging Station Data: Sources:	
General	
General	그는 그렇게 그 경기를 가져왔다. 그러면 그러면 그러워 그러워 그러워 그러워 그리아를 그리아를 그리아를 그리아를 했다.

Elevation. ESRI World Elevation. February 2000. 1:121,000.	Fig. Pro fro from a
OWRD Administrative Basins. Oregon Water Resources Department. January 1, 1995.	
Oregon Counties. Bureau of Land Management (BLM), Oregon State Office January 1, 2008.	DEC 0.1.2016 OWRD
OWRD Watermaster Districts. Oregon Water Resources Department. March 31, 2014.	
OWRD Regions. Oregon Water Resources Department. January 1, 1995.	
ODFW Districts and Regions. Oregon Department of Fish and Wildlife. August 28, 2012.	***************************************
Water Organizations Oregon Water Resources Department. April 1, 2013. 1:24,000.	
Large Dams Inventory. Oregon Water Resources Department. August 12, 2014. 1:24,000.	-
Rules	
Withdrawn Authority Areas. Oregon Water Resources Commission. January 1, 2007.	
OWRD Groundwater Restricted Areas. Oregon Water Resources Department. October 5, 2016.	
OWRD Groundwater Restricted Areas - Subunits. Oregon Water Resources Department. April 1, 2009.	
ODEQ Groundwater Management Areas (GWMAs). Oregon Department of Environmental Quality. April 21,	2008.
Groundwater Umatilla Municipal Wells 5-mile buffer. Oregon Water Resources Department. June 28, 2012.	
National Marine Fisheries Service (NMFS) 4(d) Rule. National Marine Fisheries Service. January 1, 2007.	
OAR Chapter 690, Division 33 - HUC 10 . Oregon Department of Fish & Wildlife. January 1, 2003.	
Oregon Water Quality Assessment 2010. This data set was assembled by the Oregon Department of Environin Quality Division, Standards and Assessments Section. GIS data prepared by the Watershed Management S	
Deschutes USGS Groundwater Study Area. Water Resources Commission, U.S. Geological Survey (USGS) Wa	ater Resources Division

(Portland, OR), Oregon Water Resources Department. January 1, 2001. 1:100,000.

Deschutes Zones of Impact. Oregon Water Resources Department.. October 25, 2007.

Deschutes Zones Overlay. Oregon Water Resources Department. October 25, 2007.

Oregon State Scenic Waterway areas, Oregon Water Resources Department, Oregon Parks and Recreation Department.. January 1, 2007.

Hydrography

Routed OWRD Streamcodes (conflated to the NHD). Oregon Water Resources Dept.. August 11, 2014.

Unknown, n.d.

Watershed Boundary Dataset (WBD), 10-digit (watershed). Pacific Northwest Hydrography Framework, U.S. Geological Survey (USGS), National Resources Conservation Service (NRCS). June 11, 2014. 1:24,000.

Water Availability Basins. Oregon Water Resources Department.. n.d. 1:100,000.

Priority Watersheds for Streamflow Restoration. Oregon Water Resources Dept. and the Oregon Dept. of Fish & Wildlife. January 15, 2004.

Stream Gage Stations. Oregon Water Resources Department and US Geological Survey. n.d.

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9 Help

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Water Availability Analysis

S FK MILL CR > MILL CR - AT MOUTH
HOOD BASIN

Water Availability as of 12/27/2016

Watershed ID #: 72078 (Map)

Date: 12/27/2016

Download Data

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Exceedance Level: 50%

Time: 2:18 PM

Water Availability

Select any Watershed for Details

Ne	esting O	rder :		Wate	rshed ID #:	Stream Name	::-:		• • • • •		Jan ·	Feb	Mar	Apr.	May ·	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
					. : ':'		*:* .* :	* : * : * :		. ' :		: . :		111 71 1	- 1	: . :				11 .1 1		11 .1 1	* * * * * * * * * * * * * * * * * * * *
	:: :: 1 :	: '	11 1	:	· : 70246	MILL CR> COLU	MBIA R-:AT	MOUTH:	11	٠. ٠	Yes:	Yes	Yes	Yes	Yes "	No	No	No	Yes	Yes	No -	No	Yes
٠.,	2				72078	S FK MILL CR>	MILL CR- A	T MOUTH			Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No	Yes
				•																			

Limiting Watersheds

Monthly Streamflow in Cubic Feet per Second Annual Volume at 50% Exceedance in Acre-Feet

	Month	•	Limiting	Waters	hed ID:#	Stream Name					Water	Available?		Net Water A	vailable
: :	JAN				70246	MILL CR > COL	UMBIA R	- AT MOUTH				Yes			4.12
	FEB		1111	•	72078	S FK MILL CR	MILL CR	- AT MOUTH	: ::	i		Yes			15.30
	MAR				72078	S.FK-MILL CR	MILL CÁ	- AT MOUTH				Yes	***		15.00
	APR				72078	S FK MILL CR	MILL CR	- AT MOUTH			:	Yes			8.65
	MAY				70246	MILL CR > COL	UMBIA R	- AT MOUTH			· · · · .	Yes	· · · · ·		0.95
• • •	JUN				70246	MILL CR > COL	UMBIA R	- AT MOUTH			-:::::	No			-7.56

	ability	

					complete	

JÜL		# # #	70246	MILL CR > COLUMBIA R - AT MOUTH	: :	: :: :	::	11 1	No	: :	· : : :	: :: :	:: ::	-1.55	;
AUG	i in		70246	MILL CR > COLUMBIA R - AT MOUTH	1			:::::	No					-2.59	,
SEP		· · · · · · · · · · · · · · · · · · ·	72078	S FK MILL CR > MILL CR - AT MOUTH					Yes			**:		1.56	ì
OCT	::		72078	S FK MILL CR > MILL CR - AT MOUTH	jii	:	# # #	:: :: ::::::::::::::::::::::::::::::::	Yes	:: :: :		:- ::		1.03	š
NOV	:		70246	MILL CR > COLUMBIA R - AT MOUTH					No		· · :			-7.25	
DEC			70246	MILL CR > COLUMBIA R - AT MOUTH			•	:	No		:		**:::	-2.04	
ANN			72078	S FK MILL CR - AT MOUTH	ļ į		.:.	:.]	Yes	: ::	1		.: :2	2,760.00) .

Detailed Reports for Watershed ID #70246

MILL CR > COLUMBIA R - AT MOUTH HOOD BASIN

Water Availability as of 12/27/2016

Watershed ID #: 70246 (Map)

Date: 12/27/2016

Exceedance Level: 50%

Time: 2:18 PM

Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second Annual Volume at 50% Exceedance in Acre-Feet

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Month	Natura	l Strea	am Flow	Consum	nptive Use	s and	Storages	Expected	Stream	Flow Res	erved S	tream Flow	Instream Flo	w Requirement	Net Water A	vailable
JAN	::::		25.80				6.68		:::::	19.10		0.00		15,00		4.12
····FEB			61.00			• •	17.50			43.50	: :	0.00		15,00		28.50
MAR	` : [;] ::		65.10	# # # #	: ::	:	17.50	: :::	:• ::	47.60	1 :	0.00		15.00		32.60
APR		·	45.30	· . —	<u></u> ', '	••••	13.60			31.70		0.00		15.00	· · · · · · · · · · · · · · · · · · ·	16.70
MAY	i		25.50			****	9.55			15.90		0.00		15.00		0.95
JUN	: :		15.40				7.96	· . ::		7.44		0.00		15.00		-7.56
JUL			12.60	· · ·		٠.	4.15			8.45		0.00		10.00		-1.55
AUG	****		10.70	erin.		-	3.29		•:	7.41		0.00		10.00		-2.59
SEP			9.72				3.27			6.45		0.00		4.00		2.45
OCT			8.43				3.28			5.15		0.00		4.00		1.15
NOV	: .	::::::	10.30			1111	2.55	.:::	: -	7.75	100	0.00		15.00		-7.25
DEC			15.80	Fg -			2.84			13.00		0,00		15.00		-2.04
ANN		18	8,300.00	ories s		. ::	5,520.00		12,8	00.00		0.00		8,920.00		5,120.00

Detailed Report of Consumptive Uses and Storage

Consumptive Uses and Storages in Cubic Feet per Second

M	onth	St	orage	Irriq	gation	Mur	nicipal	In	dustrial		Comn	nercial	1	Domestic	: . :	Agricultura	l Other	Tota	i :
:	JAN		4.67		0.00		2.00	: :	0.00	1 1	·	0.00		0.01		0.00	0.00	6.68	}
:	FEB	.:	15.50		0.00		2.00		0.00		· · : · : · : · :	0.00	·:	0.01	:-:	0.00	0.00	17.50)
	MAR	:	15.50	- :: : <u>-</u>	0.00	:	2.00	;;; ;; ;	0.00			0.00	:	0.01		0.00	0.00	17.50)
	APR		9.33		2.26		2.00		0.00			0.00		0.01		0.00	0.00	13.60)
	MAY		1.33		6.21		2.00		0.00			0.00	*****	0.01		0.00	0.00	9.55	;
:	JUN	:: ::	0.81	1 1	5.14		2.00		0.00	# # # #	;:	0.00		0.01		0.00	0.00	7.96)
·· ·· .	JUL		0.66		1.48	. :	2.00		0.00		٠	0.00		. 0.01		0.00	0.00	4.15	;
· ::::::::::::::::::::::::::::::::::::	AUG		0.56		0.72	,	2.00	•••••	0.00	:		0.00		0.01		0.00	0.00	3.29)
	SEP	•	0.51		0.75		2.00		0.00	: ::		0.00	:	0.01		0,00	0.00	3.27	,
	OCT	· · .	1.27		0.00		2.00	11 14 2	0.00			0.00		0,01		0.00	0.00	3.28)
	NOV	11111	0.54	;	0.00		2.00		0.00	11111	::	0.00		0.01		0.00	0.00	2.55)
,	DEC		0.83		0.00		2.00		0.00		::	0.00		0.01	: :	0.00	0.00	2.84	ŧ:

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Detailed Report of Reservations for Storage and Consumptive Uses

Reserved Streamflow in Cubic Feet per Second

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No reservations were found for this watershed.

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Detailed Report of Instream Flow Requirements

Instream Flow Requirements in Cubic Feet per Second

Application #		Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
MF194A	C	ERTIFICATE	15.00	15.00	15.00	15.00	15.00	15.00	10.00	10.00	4.00	4.00	15.00	15.00	
IS70246A		CERTIFICATE	4.00	4.00	10.00		15.00	15.00	10.00	10.00	4.00		4.00	4.00	
Maximum	:::		15.00	15.00	15.00	15.00	15.00	15.00	10.00	10.00	4.00	4.00	15.00	15.00	

Detailed Reports for Watershed ID #72078

S FK MILL CR > MILL CR - AT MOUTH HOOD BASIN

Water Availability as of 12/27/2016

Watershed ID #: 72078 (Map)

Date: 12/27/2016

Exceedance Level: 50%

Time: 2:18 PM

Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second Annual Volume at 50% Exceedance in Acre-Feet

Month Natural Stream Flow Consumptive Uses and Storages Expected Stream Flow Reserved Stream Flow Instream Flow Requirement Net Water Available

HUAN HILL HILL 20 HILL HILL HILL 4.53 HILL HILL 17.00 HILL 0.00 HILL HILL 7.00 HILL HILL 4.67

111111	:					1 11 11	11 1. 1		.: :. :			
FEB	:	37.40	11 11	11.1	15.10	1 11 11	22.30		0.00		7.00	15.30
MAR		40.00	11111		15.00		25.00		0.00		::::10,00 :::::	15.00
APR		35.30			9.65		25.60		0.00		17:00	8.65
MAY		20.60	- ii :: <u>i -</u>		1.69		18.90	: .: :. :	0.00	: .: :.:	17.00	1.91
JUN		12.10	• • •				11.10		0.00			3.27
JUL		10.10		•:	0.79		9.31		0.00		4.80	4.51
AUG		8.70			0.67		B U.S.		0.00		5.40	2.63
SEP	· · · · ·	8.30			0.64		7.66		0.00		6.10	1.56
ОСТ		7.20			1.37	.::::	5.83		0.00	: :::::::::::::::::::::::::::::::::::::	4.80	1.03
NOV		7.60			0.57		7.03		0.00		5.50	1.53
DEC		. 10.20		· · · · · · · · · · · · · · · · · · ·	0.76		9.44		0.00		7.00	2.44
ANN		12,800.00			3,080.00		9,730.00		0.00	in In	6,000.00	3,730.00

Detailed Report of Consumptive Uses and Storage

Consumptive Uses and Storages in Cubic Feet per Second

М	onth	Storage	Irrigation	Municipal	Industrial	Comr	nercial	Domestic	Agricultural	Other	Total
	JAN	4.53	0.00	0.00	0.00	······:	0.00	0.00	0.00	0.00	4.53
;	FEB	15,10	0.00	0.00	0.00		0.00	0.00	0.00	0.00	15.10
	MAR	15.00	0.00		0.00		0.00	0.00	0.00	0.00	15.00
	APR	9.59	0.06	ÓΩ	0.00		0.00	0.00	0.00	0.00	9.65
:: ::	MAY	1.54	0.15	0.00	0.00		0.00	0.00	0.00	0.00	1.69
	JUN	0.90	0.13	0.00	0.00		0.00	0.00	0.00	0.00	1.03
	JUL	0.75	0.04	0.00	- 0.00		0.00	0.00	0.00		0.79
:	AUG	0.65	0.02	0.00	0.00		0.00	0.00;	0.00	0.00	0.67
	SEP	0.62	0.02	. 0.00	0.00		0.00	0.00	0.00	0.00	0.64
•:::::	OCT	1.37	0.00	0.00	0.00		0.00	0.00	0.00	0.00	1.37
	NOV	0.57	0.00		0.00		0.00	0.00	0.00	0.00	0.57
, 11.	DEC	0.76	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.76

Detailed Report of Reservations for Storage and Consumptive Uses

DEC 01 2016

Reserved Streamflow in Cubic Feet per Second

No reservations were found for this watershed.

Detailed Report of Instream Flow Requirements

Instream Flow Requirements in Cubic Feet per Second

Application #	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IS72078A	CERTIFICATE	7.00	7.00	10.00	17.00	17.00	7.80	4.80	5.40	6.10	4.80	5.50	7.00
Maximum		7.00	7.00	10.00	17.00	17.00	7.80	4.80	5.40	6.10	4.80	5.50	7.00