2021-05

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO.		
KITT-20-02 (CS4-84430-J) and KITT-20-03 (CS4-84502-J)		
APPLICANT NAME WA State Parks and Recreation Commission	CONTACT Ken Graham (Parks) Mark Crowley (KCCD & KCWCB)	CONTACT'S TELEPHONE NO 360-902-8680 509-925-3352
WATER RIGHT HOLDER'S NAME (if different) WA State Parks and Recreation Commission		CONTACT'S EMAIL ken.graham@parks.wa.gov mark-crowley@conservewa.net

DATE OF APPLICATION
November 17, 2020

WATER SOURCE:	CROP:
Coleman Creek	Timothy & Alfalfa Hay and small grains
INSTANTANEOUS QUANTITY: 01485 cfs and 0.2475 cfs	ANNUAL QUANTITY: 45 ac/ft and 75 ac/ft
PERIOD OF USE: April 1 though October 15	
PLACE OF USE: The E1/2 SW1/4 of Section 9, T 17 N., R 19 E.W.M. The W1/2 SW1/4 of Section 9, T 17 N., R 19 E.W.M.	PURPOSE OF USE: Irrigation of 45 acres and stock water Irrigation of 75 acres and stock water

CONSUMPTIVE USE CALCULATION:
Consumptive use calculations were not completed because these are a point of diversion change applications.

NARRATIVE DESCRIPTION OF PROJECT:

The current Point of Diversion (POD) is a concrete and check board dam gravity diversion. The left bank has a legal fish screen as part of the system, but the right bank does not have a fish screen included. The check board dam creates a fish passage barrier during irrigation season and during low flow of the remaining time. The Washington State Parks Department (Parks) is working with the Kittitas County Conservation District (KCCD), Fish Barrier Removal Board (FBRB), and Washington Department of Fish & Wildlife (WDFW) to provide fish passage and screening on the Olmstead State Park.

With the assistance of a Technical Working Group (TWG) consisting of WDFW, Parks, KCCD, Bonneville Power Administration (BPA), FBRB, and a consulting engineer the decision was made that moving the POD upstream to eliminate the need for an instream check dam structure was the best option. By moving the POD upstream, the irrigation water can be diverted out of the creek at a single location without checking up the water and creating a fish passage barrier and there would be no need for a fishway ladder to allow fish to move freely up and down stream during irrigation season. This option also allows for the least amount of infrastructure in the creek. The new POD will only require one fish screen to keep fish from being entrained in the irrigation system instead of two fish screens as a system placed at the current diversion would most likely require.

The POD is currently described as: 200 feet north and 800 feet east of the southwest corner of Section 9, being within the SE1/4SW1/4SW1/4 of Section 9, T. 17 N., R. 19 E.W.M. This is not where the current POD is actually located. The current POD is located approximately 500 feet west of the center of Section 9 very near the line between the NW1/4 and the SW1/4 (lat long: 46.978071; -120.469421). The new POD is approximately 440 feet west and 500 feet north from the section center within the SE1/4NW1/4 of Section 9, T. 17 N., R. 19 E.W.M. (lat long: 46.979387; -120.468952).

As part of this project the irrigation method on the west side of the creek will be converted from rill irrigation to sprinkler irrigation. The water diverted for rill irrigation has been measured as high as 8 cfs and the new irrigation system will use approximately 2 cfs. Even though moving the POD upstream may reduce the amount of water in this 700 feet of stream by 3.5 cfs (the amount of water diverted to irrigate both sides of the creek) the creek will benefit from an increase of water of up to 6 cfs in the 3,000 feet below the current POD.


WA State Parks
S4-84430-J
POU
POD
Method of Irrigation
New POD
Actual POD
Legend
Buried Pipe Conveyance
Earthen Ditch Conveyance
Gated Pipe
POD
S4-84430-J - 45 acres
Described POD
N Ferguson Rd
Google Earth
© 2020 Google
90
N
1000 ft


WA State Parks
S4-84502-J
POU
POD
Method of Irrigation
New POD
Actual POD
Legend
Earthen Ditch Conveyance
Gated Pipe
POD
S4-84502-J - 75 acres
Described POD
N Ferguson Rd
Google Earth
© 2020 Google
90
N
1000 ft

WTWG Project form