

**WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION**

APPLICATION NO./COURT CLAIM NO. S4-33241		
APPLICANT NAME Selah-Moxee Irrigation District (SMID)	CONTACT NAME Nathan Draper	TELEPHONE NO. (509) 469-0449
WATER RIGHT HOLDER'S NAME (if different) SMID		EMAIL smidistrict@qwestoffice.net

DATE OF APPLICATION September 24, 2019	PRIORITY DATE September 24, 2019 as mitigated by S4-84594-J (January 26, 1887 priority)
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WATER SOURCE: Yakima River 1) Roza Wasteway: N½ Sec.17, T13N, R19E 2) Pomona: SE¼ of Sec.8, T14N, R19E 3) Fowler: SE¼ of Sec.7, T13N, R19E	CROP:  Multiple (hay, hops, tree fruit, etc.)
INSTANTANEOUS QUANTITY: 11.41 cfs	ANNUAL QUANTITY: 3,278.8 AFY
PERIOD OF USE: April 1st to October 31st	
PLACE OF USE: Lands within the boundary of SMID.	PURPOSE OF USE: Irrigation of 839.5 acres, frost protection and other agricultural purposes
IRRIGATION METHOD:  Multiple Irrigation Methods (sprinkler, drip, etc.)	

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Application No. S4-33241 requests 11.41 cfs and 3,278.8 afy for irrigation of 839.5 acres to be mitigated by a 3,278.8 afy portion of senior SMID Water Right No. S4-84594-J. This senior right proposed for use as mitigation authorizes a total annual quantity (Qa) of 13,781 afy of which a 9,709.1 afy portion is consumptive use. A 3,278.8 afy portion including 2,787.1 afy consumptive use will be used to mitigate the new application. (Please see the WTWG project description form in support of Change Application No. CS4-84594-J for associated calculations).</p> <p>The consumptive use calculations for Application No. S4-33241 are based on the NRCS Washington Irrigation Guide (WIG) and Ecology Guidance 1210 with the following assumptions:</p> <ul style="list-style-type: none"> <li>• WIG crop irrigation requirement (CIR) for pasture/turf at Moxee City station of 35.15 inches (2.93 feet).</li> <li>• Average application efficiency (Ea) of 75% and percent consumptive use of 85% for impact sprinklers in Ecology Guidance 1210 (Table 1)</li> </ul>
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- Per Guidance 1210, Total Irrigation requirement (TIR) is  $TIR = CIR/Ea$ , so on a per acre basis  $TIR = 2.93\text{ft}/0.75 = 3.91$  acre-ft/acre
- And, consumptive Use (CU) is  $CU = TIR \times \%CU$ , so on a per acre basis,  $CU = 3.91 \times 0.85 = 3.32$  acre-ft/acre.

Application No. S4-33241 requests 839.5 acres of irrigation within the District boundaries. This includes 193.63 acres currently irrigated and 645.9 acres that are currently fallowed but continue to be assessed.

Applying the 3.32 ac-ft per acre of consumptive use to the total requested 839.5 acres of irrigation results in a total consumptive use requirement of 2,787.1 afy under Application No. S4-33241. Or,  $839.5 \text{ acres} \times 3.32 \text{ ac-ft/ac} = 2,787.1 \text{ afy (CU)}$ .

#### NARRATIVE DESCRIPTION OF PROJECT:

Selah Moxee Irrigation District has been planning upgrades and conservation measures for their water delivery infrastructure including piping canals and lining their tunnel through the Yakima Ridge. At the same time, they are reviewing their water rights portfolio to quantify the consumptive use portion of water use savings due to recent changes in urbanization and irrigation practices. Following a flood in 1996 that washed out their main Moxee-Hubbard diversion and subsequent temporary changes through the Yakima Court as part of the Acquavella Adjudication in 2000, 2005 and 2006, the District is now requesting permanent changes to their Moxee-Hubbard water rights to add existing surface diversions that would allow operational flexibility and reflect the District's current practices on a permanent basis.

The three water right applications include:

- 1) Application to permanently transfer the District's senior Moxee/Hubbard water right No. S4-84594-J into Trust Water Rights Program for instream flow and mitigation (38 cfs and 13,781 afy with a priority of 1/26/1887);
- 2) Application for a new mitigated water right No. S4-33241 for 11.41 cfs and 3,278.8 afy for irrigation of 839.5 acres within the District's service area from the existing diversions at Pomona, Roza Wasteway pump station and Fowler Ditch; and
- 3) Application to change the points of diversion of the District's junior Warren Act Right No. S4-84595-J to the same Pomona, Roza Wasteway and Fowler Ditch diversions.

The balance of the senior right No. S4-84594-J not used to mitigate for Application No. S4-33241 will be retained in trust to be used as mitigation for the District's wholesale water banking efforts to help fund the District's infrastructure upgrades and for possible District water use in the future.

The three applications will not impact Total Water Supply Available at Parker. There will also be no increase in consumptive water use as a result of the two changes and the new mitigated application. To help ensure this, the District commits to conducting periodic audits of its consumptive use with reports to Ecology to be included as provisions on the rights. The audit will include an accounting of irrigated acreage and crop type.

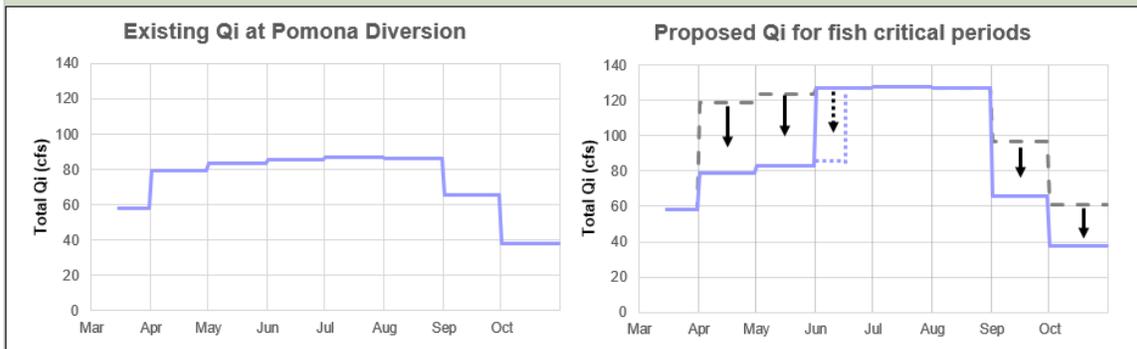
The changes in points of diversion include retaining the diversion from the Roza Tailrace

located behind the Bureau’s Yakima Field Office in Section 17, T13N, R19EWM; adding the Fowler Ditch Diversion downstream of the original Moxee /Hubbard Diversion (washed out in 1996 flood) within Section 7, T13N, R19EWM; and adding the existing Pomona Diversion (SE¼ of Section 8, T14N, R19EWM) which is the authorized diversion for the District’s four other water rights (S4-84590-J, S4-84591-J, S4-84592-J and S4-84593-J).

The request to permanently add the Pomona Diversion is similar to temporary changes through the Court in 2005 and 2006 and represents an upstream transfer from the former Moxee/Hubbard Diversion located just downstream of the confluence with the Naches River to the District’s existing Pomona Diversion downstream of the Roza ID diversion. The District proposes to address local impacts to the intervening reach below Pomona by limiting total diversions at Pomona to the Qi currently authorized under existing rights (S4-84590-J, S4-84591-J, S4-84592-J and S4-84593-J) during fish-critical periods. The graphs below summarize the District’s proposal to limit diversions during flip-flop; during early season out-migration time periods from April 1<sup>st</sup> to May 31<sup>st</sup>; and from June 1<sup>st</sup> to 15<sup>th</sup> only at times when flows at RBDW fall below 1300 cfs.

## Limitation on Pomona Diversions (Qi)

- No increase in Pomona diversions during fish-critical periods
- SMID commits 300 afy CU instream in the Trust Program over Parker

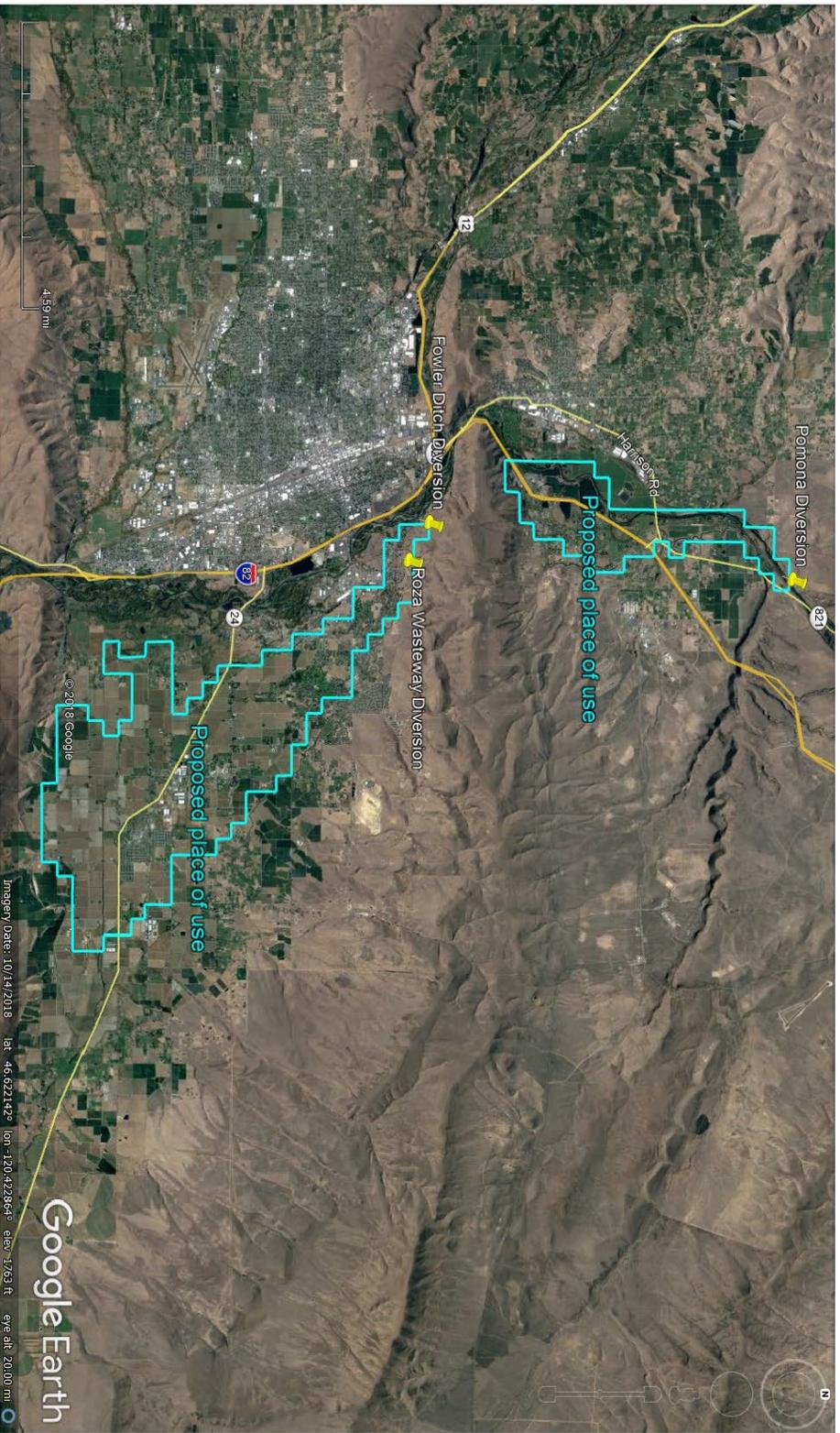


### Example Provision:

“Instantaneous diversions for this permit at the Pomona diversion shall not exceed the historic authorized quantities for S4-84590J, S4-84591J, S4-84592J, and S4-84593J during the following periods:

- **April 1<sup>st</sup> to May 31<sup>st</sup>;**
- **June 1<sup>st</sup> to June 15, during periods when flows as measured at RBDW fall below 1300cfs;**
- **September 1<sup>st</sup> to October 31<sup>st</sup>**

From June 15<sup>th</sup> to August 31<sup>st</sup>, the instantaneous quantity in this permit is additive to the quantities authorized for S4-84590J, S4-84591J, and S4-84593J.”



**Figure 1**

**SMID Application for New Mitigated Water Right**

**Aspect Consulting**

09/05/2019

S:\SMID 150226\Change to Trust\Application figures\_SMID

Selah-Moxee Irrigation District  
Yakima County, WA