State of Oregon
**Water Resources Department**
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900

Application for

# Surface Water Allocation of Conserved Water

**Part 1 of 4 – Minimum Requirements Checklist**

**This application will be returned if Parts 1 through 4 and all required attachments are not completed and included.**
For questions, please call (503) 986-0900, and ask for Allocation of Conserved Water Section.

Check all items included with this application. (N/A = Not Applicable)

☒ Part 1 – Completed Minimum Requirements Checklist.

☒ Part 2 – Completed Applicant Information and Signature.

☒ Part 3 – Completed Water Right Information and Conservation Measures. Please include a separate Part 3 for each water right. List all water right certificates involved in this application here: **95154 and 95155**.

☒ Part 4 –Completed Mitigation, Proposed Use, Project Schedule, Funding, and Fee Calculation.

**Attachments:**

☒ Fees – Amount enclosed: $ **1,570** (From last page of application).

☒ Application Map. Must have sufficient detail to locate and describe the facilities and areas involved in the conservation measures. Must show the place of use where water is being used if the rate or duty are changing. **Attachment A**

☒ Land Use Information Form with approval and signature. (Not required if 100% of Conserved Water is being transferred instream.) **or** **Attachment D**

Land Use Notice - Notice of the intent to create an instream water right must be provided to each affected county, city, municipal corporation, or tribal government along the proposed instream reach.

☒ Completed Evidence of Use Affidavit and Supporting Documentation. **Attachment E**

☐ ☒ N/A Affidavit(s) of Consent.

☒ ☐ N/A Letter of approval from Irrigation or Water Control District. For water rights served by or issued in the name of a District; this must be provided when the applicant is not the District. **Attachment F**

☐ ☒ N/A Irrigation or Water Control District's adopted policy on allocation of conserved water.

☒ ☐ N/A If construction of the project has begun or been completed and if more than 25 percent of the project costs have been expended before applying for allocation of conserved water, evidence that you have attempted to identify and resolve the concerns of water right holders in the area, governmental entities or other organizations who have asked to be consulted regarding the allocation of conserved water.

☐ ☒ N/A Evidence for Fee Waiver.

☒ ☐ N/A Notice of Completion. **Attachment G**

☒ ☐ N/A Request for Finalization. (The entire conservation project listed on the application must be complete. No partial finalization will be recognized.) **Attachment H**

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## Part 2 of 4 – Applicant Information and Signature

### Applicant Information

| APPLICANT/BUSINESS NAME | | | PHONE NO. | ADDITIONAL CONTACT NO. |
|---|---|---|---|---|
| **Farmland Reserve, Inc.** | | | JENS RASMUSSEN 509-820-3234 | |
| ADDRESS | | | | FAX NO. |
| PO BOX 2308 | | | | |
| CITY | STATE | ZIP | E-MAIL | |
| PASCO | WA | 99302 | JRASMUSSEN@AGRINW.COM | |

☐ The applicant is an irrigation district organized under ORS Chapter 545 or a water control district organized under ORS Chapter 553. The District's OAR 690-018-0025 allocation of conserved water policy was adopted: ____/____/ 20____.

**OR**

☒ The applicant is the sole owner of the land on which the water right, or portion thereof, proposed for conservation measures is located? ☒ Yes ☐ No

If NO, include signatures of all landowners (and mailing address if different than the applicant's) or attach affidavits of consent (and mailing addresses) from all landowners or individuals/entities to which the water right(s) has been conveyed.

| LANDOWNER NAME | | | PHONE NO. |
|---|---|---|---|
| ADDRESS | | | |
| CITY | STATE | ZIP | E-MAIL |

**Representative Information –** The person(s) listed below is/are authorized to represent the applicant in all matters relating to this application.

| REPRESENTATIVE/BUSINESS NAME | | | PHONE NO. | ADDITIONAL CONTACT NO. |
|---|---|---|---|---|
| THEODORE R RESSLER | | | 971-200-8509 | |
| ADDRESS | | | | FAX NO. |
| GSI WATER SOLUTIONS, INC., 55 SW YAMHILL STREET, SUITE 300 | | | | |
| CITY | STATE | ZIP | E-MAIL | |
| PORTLAND | OR | 97204 | TRESSLER@GSIWS.COM | |

I understand that I will be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following paper: East Oregonian.

**I (we) affirm that the information contained in this application is true and accurate.**

| Applicant signature | Print Name (and Title if applicable) | Date |
|---|---|---|
| | **David Armstrong, Vice President** | |
| Applicant signature | Print Name (and Title if applicable) | Date |
| | | |

**In your own words tell us what physical conservations measures you have made or propose to make and the reason for the change(s):**

**Physical Conservation Measures:**

The physical conservation measure completed was an on-farm efficiency project involving a change from a multiple emitter drip system for irrigation of trees to center pivot irrigation of row crops utilizing low pressure low flow spray nozzles. The completion of this project resulted in an ~~87.78~~85.33 cfs reduction in the rate of irrigation and a ~~14,193.76~~13,604.32 AF reduction in the volume of water applied per acre during the irrigation season.

**Reason for the Change:**

Pre-project irrigation system was designed for the purpose of growing trees. When the lands associated with the tree growing operation were purchased by the Applicant (Farmland Reserve), the trees were incrementally harvested and replaced with row crops. Associated with this change in crop type was a necessary change in irrigation application method from multiple emitter drip system to center pivot irrigation. The conversion from the tree growing operation to row crops began in 2016 and was completed in 2019.

**Project Background:**

Because the center pivots apply water within circular areas, the irrigation pattern had to be changed from the pre-project drip irrigated tree rows or "strips" to solid irrigation circles. Transfer T-12522 was filed in 2016 to reorganize the place of use of the water rights on the land to create solid circular areas of irrigation. Transfer T-12522 involved a place of use change for Certificates 76584, 76585, 76586, and 83588 (all associated with Permit S-37150) and Certificates 83589, 83590, 83591, 83592, and 89511 (all associated with Permit S-36940). A claim of beneficial use for Transfer T-12522 was submitted in March 2020 and certificates were issued in July 2020. Please note that when issuing the resulting certificates, the Department issued two certificates that combined the transferred portions of the water rights associated with the two original permits: Certificate 95154 (includes all portions of the water rights involved in T-12522 originating from Permit S-37510) and Certificate 95155 (includes all portions of the water rights involved in T-12522 originating from Permit S-36940). Certificates 95154 and 95154 are the two water rights involved in this allocation of conserved water application.

(NOTE: Transfer T-12522 did not make changes to all portions of the original water rights. Remaining right certificates were issued for the portions of the water rights not changed by Transfer T-12522: Certificates 92990, 92991, 92992, 92993, and 92994. These remaining rights are NOT part of this allocation of conserved water application.)

To meet State Land Use Consistency Requirements, you must list all local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction the conservation project and/or proposed instream reach will be located.

| ENTITY NAME | ADDRESS | |
|---|---|---|
| MORROW COUNTY | 100 S. COURT ST. | |
| CITY | STATE | ZIP |
| HEPPNER | OR | 97836 |

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## Part 3 of 4 – Water Right Information and Conservation Measures

Please use a separate Part 3 for **each** water right involved in the proposed allocation of conserved water.

**WATER RIGHT INFORMATION:**

Water Right Subject to Transfer (check and complete **ONE** of the following):

| | | | |
|---|---|---|---|
| ☒ | Certificated Right | 95154<br>Certificate Number | S-37150<br>Permit Number or Decree Name |
| ☐ | Adjudicated, Un-certificated Right | <br>Name of Decree | <br>Page Number |
| ☐ | Permit for which Proof has been Approved | <br>Permit Number | <br>Special Order Volume _____, Page _____ |
| ☐ | Transferred Right for which Proper Proof of the change has been filed | <br>Previous Certificate / Transfer Number | <br>Date Claim of Beneficial Use Submitted |

County: Morrow

Describe the pre-project water delivery system. Include information on the diversion structure, pumps, and conveyance facilities (including canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use). *Provide sufficient detail for the Department to determine the system capacity.* Water used for irrigation pre-project was diverted from the Columbia River at the Columbia River Pump Station (CRPS), which located on the south bank of the Columbia River in Section 2, Township 4 North, Range 25 East (WM). The CRPS consists of twelve vertical turbine pumps installed on a single pier that extends from the shoreline into the river. These twelve pumps supply two separate water delivery systems, which are further described below. Please note that these water delivery systems supply water for additional lands under separate water rights than the two water rights involved in this allocation of conserved water application; therefore the components of the water delivery systems have capacities that exceed that required to serve the acreage related to this specific application.

**Boardman Farm System:**

The Boardman Farm system has a delivery capacity of 122,000 gpm (271.8 cfs).

Six low lift line shaft turbine pumps (1,350 Hp total; two 150 Hp, three 250 Hp, and one 300 Hp) are used to divert and pump water from the Columbia River a short distance to a high lift booster pump station. The high lift booster pump station consists of a large concrete sump structure, into which nine vertical line shaft turbine pumps are installed (8,600 Hp total; one 600 Hp and eight 1000 Hp). From the high lift booster pump station, water is pumped into parallel 54-inch main pipelines. The parallel pipelines extend in a southeasterly direction ~3480 feet to a point where they cross beneath Columbia Avenue, then continue southeasterly ~8200 feet to a point where they cross beneath the Union Pacific Railroad track, then continue southeasterly another ~1690 feet to a point where they cross the West Extension Irrigation District (WEID) canal, then continue ~430 feet to a point where they cross beneath State Highway 730, then continue ~4010 feet to where they bend to the south. This is the location of a booster pumping station referred to as the Cherokee Station.

The Cherokee booster station consists of four centrifugal pumps (600 Hp total; one 75 Hp, one 125 Hp, and two 200 Hp). The Cherokee booster station boosts the pressure in a portion of the water being carried by the parallel 54-inch pipelines and discharges it into a 20-inch pipeline that conveys the water to 4 blocks of trees (Field 47) in the Cherokee strip (Attachment C).

From the location of the Cherokee booster station, the parallel 54-inch pipelines extend south and cross beneath I-84 and continue to the location of Booster Station 1. Booster Station 1 consists of nine pumps (7,800 Hp total; two 400 Hp and seven 1,000 Hp) and boosts the pressure in the parallel 54-inch pipelines and discharges the water into parallel 48-inch and 54-inch pipelines that continue extending southeasterly. Fields 15, 16, and 22 are served from the 48-inch pipeline (Attachment C). The parallel 48-inch and 54-inch pipelines continue southeasterly to Booster Station 2. Booster Station 2 consists of nine pumps (5,000 Hp total; two 400 Hp and seven 600 Hp) and boosts the pressure and discharges the water into a network of mainlines ranging from 54-inch to 10-inches that deliver water to Fields 17 through 43. Water was also conveyed to the south farm (Fields 101 through 108, 201 through 208, 401, 402, 408, 409, 701 through712, 801 through 812, and 901 through 919) through two interties, the West Intertie and the East Intertie (Attachment C). The pumping station at both the West Intertie and the East Intertie consist of two 100 Hp pumps. The interties allowed the entire farm to be irrigated with water from either the Boardman Farm System or the Columbia Improvement District System.

**Columbia Improvement District System:**

The CID system, which supplies water to a number of water users including Farmland Reserve, has a delivery capacity of 142,000 gpm (316.4 cfs). Farmland Reserve has an agreement for delivery of 62,900 gpm (140.1 cfs) from the CID system.

Six low lift line shaft turbine pumps (3,000 Hp total; six 500 Hp) are used to divert and pump water from the Columbia River a short distance to a high lift booster pump station. The high lift booster pump station consisting of fifteen centrifugal pumps (10,500 Hp total; fifteen 700 Hp). From the high lift booster pump station, water is pumped into parallel 72-inch main pipelines that deliver water to the Columbia River Irrigation District (CID) conveyance system.



Six pumping stations (Stations 1, 2, 3, 7, 8, and 9) on the CID canal were used to divert water from the CID system for delivery and use on the tree farm (Attachment C). Station 1 consists of four pumps (675 Hp total, one 75 Hp, and three 200 Hp) that deliver water into a network of mainlines ranging from 18-inch to 10-inches that convey water to Fields 101 through 108 (Attachment C). Station 2 consists of three pumps (850 Hp total; one 250 HP and three 300 Hp) that deliver water into a network of mainlines ranging from 18-inch to 10-inches that convey water to Fields 201 through 208 (Attachment C). Station 4 consists of three pumps (430 Hp total; one 30 Hp and two 200 Hp) that deliver water into a network of mainlines ranging from 18-inch to 10-inches that convey water to Fields 401, 402, 408, and 409 (Attachment C). Station 7 consists of five pumps (1550 Hp total, two 250 Hp, one 300 Hp, one 350 Hp, and one 400 Hp) that deliver water into a network of mainlines ranging from 30-inch to 10-inch that convey water to Fields 701 through 712(Attachment C). Station 8 consists of four pumps (850 Hp total; two 150 Hp, one 250 Hp, and one 300 Hp) that deliver water into a network of mainlines ranging from 24-inch to 10-inch that convey water to Fields 801 through 812(Attachment C). Station 9 consists of six pumps (2100 Hp total; one 200 Hp, one 300 Hp, and four 400 Hp) that deliver water into a network of mainlines ranging from 26-inch to 10-inch that convey water to Fields 901 through 919(Attachment C).

**Application:**

Each field consisted of four blocks of trees. A manifold for each field distributed water to the four blocks of trees. Water was applied for irrigation using a drip system, with multiple emitters applying water to tree. The number of emitters per acres, the emitter rate, and the run time of the drip system for each block of trees was computer monitored and controlled and the rate of water conveyed through each manifold (that distributed water to a set of four blocks of trees) was measured with a flow meter. The rate of water application varied based on the age of the tree, and at maturity, up to 1/40 cfs per acre and 54 inches (4.5 feet) of water were applied per acre per irrigation season (maximum duty of 4.5 acre-feet per acre). Water use data for a single

field of mature trees is provided below from the 2016 irrigation season. Additional details regarding the entire water application system is provided in Attachment C.

Instantaneous Rate Date for Field 102

| Block | Number of Emitters | Emitter Rate (gpm/hour) | Total Water Application Rate for Block (gpm) | Application Rate per Acre (gpm/acre) | Application Rate per Acre (cfs/acre) |
|---|---|---|---|---|---|
| 1 | 50,111 | 0.75 | 626 | 14.5 | 0.03 |
| 2 | 49,519 | 0.75 | 619 | 14.5 | 0.03 |
| 3 | 45,999 | 0.75 | 575 | 14.5 | 0.03 |
| 4 | 45,848 | 0.75 | 573 | 14.5 | 0.03 |

Seasonal Volume Data for Field 102 for the 2016 Irrigation Season

| Block | Block Acreage | Total Inches of Water Applied during Irrigation Season | Inches of Water per Acre during Irrigation Season | Feet of Water per Acre during Irrigation Season |
|---|---|---|---|---|
| 1 | 43.14 | 2371.55 | 54.97 | 4.58 |
| 2 | 42.63 | 2379.57 | 55.82 | 4.65 |
| 3 | 39.60 | 2103.81 | 53.13 | 4.42 |
| 4 | 39.47 | 2195.32 | 55.62 | 4.63 |
| TOTAL | 164.85 | 9050.24 | 54.90 | 4.57 |



**Table 1: Pre-Project Description**

List: A) the maximum rate and annual duty (volume) of water that may be diverted **as stated on the water right of record;** and B) the maximum amount of water that can be diverted using the pre-project facilities **("system capacity")**. If there are multiple priority dates on the water right, list the rate and duty associated with each priority date. (*If the water right is only limited by rate, do not list a duty. Conversely, if the water is only limited by duty, do not list a rate).*

| PRE-PROJECT DESCRIPTION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Column A Water Right of Record | | | | Column B System Capacity | | | |
| | | | Rate | | Duty | | Rate | | Duty | |
| Originating Water Right # | Priority | Acres | Maximum CFS | CFS/AC | Maximum AF | AF/AC | Maximum CFS | CFS/AC | Maximum AF | AF/AC |
| 95154 | 7/25/1973 | ~~6,721.22~~ 6131.78 | ~~140.10~~ 127.81 | 0.025 | ~~30,245.49~~ 27,593.01 | 4.5 | 411.9[A] | 0.025[B] | 30,245.49 | 4.5 |
| Totals | | ~~6,721.22~~ 6131.78 | ~~140.10~~ 127.81 | | ~~30,245.49~~ 27,593.01 | | 411.9 | | 30,245.49 | |

**Note:** *1 miner's inch = 1/40 cfs; 1 cfs = 448.8 gpm 1 cfs = 1.983471 ac-ft/day*

**Notes:**

[A] The combined capacity of the diversion and conveyance system was 411.9 cfs, being 271.8 cfs from the Boardman Farm System and 140.1 cfs from the CID System. The combined capacity of all emitters in the pre-project irrigation system totaled 513 cfs (Attachment C). Thus the capacity of the diversion and conveyance system was the limiting system component. However, the 411.9 cfs system capacity was in excess of the water that was used for the pre-project (being ~~140.10~~127.81 under 95154 + 184.71 under 95155 = ~~324.81~~312.52 cfs) because this diversion and conveyance system was used to supply the rate for multiple water rights besides those water rights involved in this ACW application.

[B] The combined application rate of emitters per acre in the pre-project irrigation system (Attachment C).

**CONSERVATION MEASURES:**

Describe the type of conservation measures, check all that apply:

- ☒ On-Farm efficiency project
- ☐ Distribution project, such as a ditch piping or lining project
- ☐ Other: _____

Describe the proposed changes to the physical system, operations and application methods that will result in the conservation of water. If these proposed changes will change the point of diversion, you must meet the ODFW fish screen and bypass requirements pursuant to ORS 540.525. *Please include a description and details of how the estimate of water conserved was determined. Please provide sufficient detail for the Department to provide notice of the project.*

There was a physical change to the on-farm irrigation system from a multiple emitter drip system for strip irrigation of trees to a center pivot irrigation system equipped with high efficiency nozzles for row crops. The center pivots are equipped with low pressure, low flow spray nozzles designed to apply 7.5 gpm of water per acre (0.017 cfs/ac) with up to 3.5 acre-feet per acre per season. Note: these changes did not involve a change in the point of diversion.

Certificate 95154 authorizes the use of up to 1/40 cfs per acre (0.025 cfs/ac) and 4.5 AF per acre during the irrigation season. As discussed above, the pre-project irrigation system utilized the full rate and seasonal volume authorized by the water right. The completed on-farm irrigation system change to center pivots with high efficiency nozzles resulted in:

- A reduction in the instantaneous irrigation rate from ~~140.10~~127.81 cfs ~~(rate authorized by Certificate 95154)~~ to ~~112.24~~102.40 cfs (0.0167 cfs/ac* ~~6721.22~~6131.78 acres), for a resulting conservation of ~~27.86~~25.41 cfs
- A reduction in the seasonal volume of use from up to 4.5 AF per acre to 3.5 AF per acre, for a resulting conservation of ~~6721.22~~6131.78 AF (1.0 AF/ac * ~~6721.22~~6131.78 acres).

**Existing Point(s) of Diversion:**

| POD | Twp | | Rng | | Sec | ¼ | ¼ | Tax Lot | Gvt Lot or DLC | Measured Distances or Latitude and Longitude |
|---|---|---|---|---|---|---|---|---|---|---|
| CRPS | 4 | N | 25 | E | 2 | NE | NW | | 7 | South 86 degrees 22 minutes 46 seconds west, 289 feet from the NE corner of Section 2 |

**Place of Use Involved in Conservation Measures:**

List only the part of the right that will be affected. If the entire right is being affected, just state "entire Certificate."

| Twp | | Rng | | Sec | ¼ | ¼ | Tax Lot | Gvt Lot or DLC | Acres | Type of Use listed On Certificate | Priority Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | S | 9 | E | 15 | NE | NW | 200 | 43 | 153.0 | EXAMPLE | 1/1/1865 |
| ~~Entire Certificate~~See Table A attached | | | | | | | | | ~~6,721.22~~ 6,131.78 | Irrigation | 7/25/1973 |
| | | | | | | | | Total | ~~6,721.22~~ 6,131.78 | | |

Are there other water right certificates, water use permits, ground water registrations, or uncertificated decreed rights associated with the above lands? ☐ Yes ☒ No. If YES, list the certificates, water use permits, groundwater registrations, or uncertificated decree numbers: _____

Is the project within the boundaries of an irrigation district or water control district? ☒ Yes ☐ No If YES, and applicant is not a District, you must provide a letter of approval from the District.

### Table 2: Conserved Water

In Column A, list the smaller of A or B from Table 1 (Pre-Project Description). In Column B, list the amount of water that will be needed for the existing, authorized use(s) after implementing the conservation measures. In Column C, subtract Column B from Column A and enter the results *(e.g.,* A – B = C). (*If the water right is only limited by rate, do not list a duty; and conversely, if the water is only limited by duty, do not list a rate.*)

| Conserved Water Description | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Column A | | | | Column B | | | | Column C | | |
| | Table 1 – Smaller of A or B | | | | Needed | | | | Conserved Water | | |
| | Rate | | Duty | | Rate | | Duty | | Rate | Duty | |
| Priority | Maximum CFS | CFS/AC | Maximum AF | AF/AC | Maximum CFS | CFS/AC | Maximum AF | AF/AC | Maximum CFS | Maximum AF | AF/AC |
| 7/25/1973 | ~~140.10~~ 127.81 | 0.025 | ~~30,245.49~~ 27,593.01 | 4.5 | ~~112.24~~ 102.40 | 0.0167 | ~~23,524.27~~ 21,461.23 | 3.5 | ~~27.86~~ 25.41 | ~~6,721.22~~ 6,131.78 | 1.0 |
| **Totals** | ~~140.10~~ 127.81 | | ~~30,245.49~~ 27,593.01 | | ~~112.24~~ 102.40 | | ~~23,524.27~~ 21,461.23 | | ~~27.86~~ 25.41 | ~~6,721.22~~ 6131.78 | |

### Table 3: Allocation of Conserved Water

List the portions of the conserved water that will be allocated to the state and applicant. Note: Column A plus Column B should total Column C (e.g., A + B = C).

| Conserved Water Allocation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Column A | | | Column B | | | Column C | | |
| State's Portion | | | Applicant's Portion | | | Conserved Water | | |
| Percentage* | Maximum Rate | Maximum Duty (Volume) | Percentage | Maximum Rate | Maximum Duty (Volume) | Percentage | Maximum Rate | Maximum Duty (Volume) |
| 25% | ~~6.96~~ 6.35 | ~~1,680.30~~ 1,532.94 | 75% | ~~20.90~~ 19.06 | ~~5,040.92~~ 4,598.84 | 100% | ~~27.86~~ 25.41 | ~~6,6721.22~~ 6,131.78 |

** must be at least 25%*

The priority for the conserved water is requested to be:

☐ The same as the original right, or

☒ One minute junior to the original right.

## Part 3 of 4 – Water Right Information and Conservation Measures

Please use a separate Part 3 for **each** water right involved in the proposed allocation of conserved water.

**WATER RIGHT INFORMATION:**

Water Right Subject to Transfer (check and complete **ONE** of the following):

| | | | |
|---|---|---|---|
| ☒ | Certificated Right | 95155<br>Certificate Number | S-36940<br>Permit Number or Decree Name |
| ☐ | Adjudicated, Un-certificated Right | Name of Decree | Page Number |
| ☐ | Permit for which Proof has been Approved | Permit Number | Special Order Volume _____, Page _____ |
| ☐ | Transferred Right for which Proper Proof of the change has been filed | Previous Certificate / Transfer Number | Date Claim of Beneficial Use Submitted |

County: Morrow

Describe the pre-project water delivery system. Include information on the diversion structure, pumps, and conveyance facilities (including canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use). *Provide sufficient detail for the Department to determine the system capacity.* Water used for irrigation pre-project was diverted from the Columbia River at the Columbia River Pump Station (CRPS), which located on the south bank of the Columbia River in Section 2, Township 4 North, Range 25 East (WM). The CRPS consists of twelve vertical turbine pumps installed on a single pier that extends from the shoreline into the river. These twelve pumps supply two separate water delivery systems, which are further described below. Please note that these water delivery systems supply water for additional lands under separate water rights than the two water rights involved in this allocation of conserved water application; therefore the components of the water delivery systems have capacities that exceed that required to serve the acreage related to this specific application.

**Boardman Farm System:**

The Boardman Farm system has a delivery capacity of 122,000 gpm (271.8 cfs).

Six low lift line shaft turbine pumps (1,350 Hp total; two 150 Hp, three 250 Hp, and one 300 Hp) are used to divert and pump water from the Columbia River a short distance to a high lift booster pump station. The high lift booster pump station consists of a large concrete sump structure, into which nine vertical line shaft turbine pumps are installed (8,600 Hp total; one 600 Hp and eight 1000 Hp). From the high lift booster pump station, water is pumped into parallel 54-inch main pipelines. The parallel pipelines extend in a southeasterly direction ~3480 feet to a point where they cross beneath Columbia Avenue, then continue southeasterly ~8200 feet to a point where they cross beneath the Union Pacific Railroad track, then continue southeasterly another ~1690 feet to a point where they cross the West Extension Irrigation District (WEID) canal, then continue ~430 feet to a point where they cross beneath State Highway 730, then continue ~4010 feet to where they bend to the south. This is the location of a booster pumping station referred to as the Cherokee Station.

The Cherokee booster station consists of four centrifugal pumps (600 Hp total; one 75 Hp, one 125 Hp, and two 200 Hp). The Cherokee booster station boosts the pressure in a portion of the water being carried by the parallel 54-inch pipelines and discharges it into a 20-inch pipeline that conveys the water to 4 blocks of trees (Field 47) in the Cherokee strip (Attachment C).

From the location of the Cherokee booster station, the parallel 54-inch pipelines extend south and cross beneath I-84 and continue to the location of Booster Station 1. Booster Station 1 consists of nine pumps (7,800 Hp total; two 400 Hp and seven 1,000 Hp) and boosts the pressure in the parallel 54-inch pipelines and discharges the water into parallel 48-inch and 54-inch pipelines that continue extending southeasterly. Fields 15, 16, and 22 are served from the 48-inch pipeline (Attachment C). The parallel 48-inch and 54-inch pipelines continue southeasterly to Booster Station 2. Booster Station 2 consists of nine pumps (5,000 Hp total; two 400 Hp and seven 600 Hp) and boosts the pressure and discharges the water into a network of mainlines ranging from 54-inch to 10-inches that deliver water to Fields 17 through 43. Water was also conveyed to the south farm (Fields 101 through 108, 201 through 208, 401, 402, 408, 409, 701 through712, 801 through 812, and 901 through 919) through two interties, the West Intertie and the East Intertie (Attachment C). The pumping station at both the West Intertie and the East Intertie consist of two 100 Hp pumps. The interties allowed the entire farm to be irrigated with water from either the Boardman Farm System or the Columbia Improvement District System.

**Columbia Improvement District System:**

The CID system, which supplies water to a number of water users including Farmland Reserve, has a delivery capacity of 142,000 gpm (316.4 cfs). Farmland Reserve has an agreement for delivery of 62,900 gpm (140.1 cfs) from the CID system.

Six low lift line shaft turbine pumps (3,000 Hp total; six 500 Hp) are used to divert and pump water from the Columbia River a short distance to a high lift booster pump station. The high lift booster pump station consisting of fifteen centrifugal pumps (10,500 Hp total; fifteen 700 Hp). From the high lift booster pump station, water is pumped into parallel 72-inch main pipelines that deliver water to the Columbia River Irrigation District (CID) conveyance system.



Six pumping stations (Stations 1, 2, 3, 7, 8, and 9) on the CID canal were used to divert water from the CID system for delivery and use on the tree farm (Attachment C). Station 1 consists of four pumps (675 Hp total, one 75 Hp, and three 200 Hp) that deliver water into a network of mainlines ranging from 18-inch to 10-inches that convey water to Fields 101 through 108 (Attachment C). Station 2 consists of three pumps (850 Hp total; one 250 HP and three 300 Hp) that deliver water into a network of mainlines ranging from 18-inch to 10-inches that convey water to Fields 201 through 208 (Attachment C). Station 4 consists of three pumps (430 Hp total; one 30 Hp and two 200 Hp) that deliver water into a network of mainlines ranging from 18-inch to 10-inches that convey water to Fields 401, 402, 408, and 409 (Attachment C). Station 7 consists of five pumps (1550 Hp total, two 250 Hp, one 300 Hp, one 350 Hp, and one 400 Hp) that deliver water into a network of mainlines ranging from 30-inch to 10-inch that convey water to Fields 701 through 712(Attachment C). Station 8 consists of four pumps (850 Hp total; two 150 Hp, one 250 Hp, and one 300 Hp) that deliver water into a network of mainlines ranging from 24-inch to 10-inch that convey water to Fields 801 through 812(Attachment C). Station 9 consists of six pumps (2100 Hp total; one 200 Hp, one 300 Hp, and four 400 Hp) that deliver water into a network of mainlines ranging from 26-inch to 10-inch that convey water to Fields 901 through 919(Attachment C).

**Application:**

Each field consisted of four blocks of trees. A manifold for each field distributed water to the four blocks of trees. Water was applied for irrigation using a drip system, with multiple emitters applying water to tree. The number of emitters per acres, the emitter rate, and the run time of the drip system for each block of trees was computer monitored and controlled and the rate of water conveyed through each manifold (that distributed water to a set of four blocks of trees) was measured with a flow meter. The rate of water application varied based on the age of the tree, and at maturity, up to 1/40 cfs per acre and 54 inches (4.5 feet) of water were applied per acre per irrigation season (maximum duty of 4.5 acre-feet per acre). Water use data for a single

field of mature trees is provided below from the 2016 irrigation season. Additional details regarding the entire water application system is provided in Attachment C.

Instantaneous Rate Date for Field 102

| Block | Number of Emitters | Emitter Rate (gpm/hour) | Total Water Application Rate for Block (gpm) | Application Rate per Acre (gpm/acre) | Application Rate per Acre (cfs/acre) |
|---|---|---|---|---|---|
| 1 | 50,111 | 0.75 | 626 | 14.5 | 0.03 |
| 2 | 49,519 | 0.75 | 619 | 14.5 | 0.03 |
| 3 | 45,999 | 0.75 | 575 | 14.5 | 0.03 |
| 4 | 45,848 | 0.75 | 573 | 14.5 | 0.03 |

Seasonal Volume Data for Field 102 for the 2016 Irrigation Season

| Block | Block Acreage | Total Inches of Water Applied during Irrigation Season | Inches of Water per Acre during Irrigation Season | Feet of Water per Acre during Irrigation Season |
|---|---|---|---|---|
| 1 | 43.14 | 2371.55 | 54.97 | 4.58 |
| 2 | 42.63 | 2379.57 | 55.82 | 4.65 |
| 3 | 39.60 | 2103.81 | 53.13 | 4.42 |
| 4 | 39.47 | 2195.32 | 55.62 | 4.63 |
| TOTAL | 164.85 | 9050.24 | 54.90 | 4.57 |



**Table 1: Pre-Project Description**

List: A) the maximum rate and annual duty (volume) of water that may be diverted **as stated on the water right of record;** and B) the maximum amount of water that can be diverted using the pre-project facilities **("system capacity")**. If there are multiple priority dates on the water right, list the rate and duty associated with each priority date. (*If the water right is only limited by rate, do not list a duty. Conversely, if the water is only limited by duty, do not list a rate).*

| PRE-PROJECT DESCRIPTION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Column A Water Right of Record | | | | Column B System Capacity | | | |
| | | | Rate | | Duty | | Rate | | Duty | |
| Originating Water Right # | Priority | Acres | Maximum CFS | CFS/AC | Maximum AF | AF/AC | Maximum CFS | CFS/AC | Maximum AF | AF/AC |
| 95155 | 6/29/1973 | 7,472.54 | 184.71 | 0.025 | 33,626.43 | 4.5 | 411.9[A] | 0.025[B] | 33,626.43 | 4.5 |
| **Totals** | | 7,472.54 | 184.71 | | 33,626.43 | | 411.9 | | 33,626.43 | |

**Note:** *1 miner's inch = 1/40 cfs; 1 cfs = 448.8 gpm 1 cfs = 1.983471 ac-ft/day*

**Notes:**

[A] The combined capacity of the diversion and conveyance system was 411.9 cfs, being 271.8 cfs from the Boardman Farm System and 140.1 cfs from the CID System. The combined capacity of all emitters in the pre-project irrigation system totaled 513 cfs (Attachment C). Thus the capacity of the diversion and conveyance system was the limiting system component. However, the 411.9 cfs system capacity was in excess of the water that was used for the pre-project (being ~~140.10~~127.81 under 95154 + 184.71 under 95155 = ~~324.81~~312.52 cfs) because this diversion and conveyance system was used to supply the rate for multiple water rights besides those water rights involved in this ACW application.

[B] The combined application rate of emitters per acre in the pre-project irrigation system (Attachment C).

**CONSERVATION MEASURES:**



Describe the type of conservation measures, check all that apply:

- ☒ On-Farm efficiency project
- ☐ Distribution project, such as a ditch piping or lining project
- ☐ Other: _____

Describe the proposed changes to the physical system, operations and application methods that will result in the conservation of water. If these proposed changes will change the point of diversion, you must meet the ODFW fish screen and bypass requirements pursuant to ORS 540.525. *Please include a description and details of how the estimate of water conserved was determined. Please provide sufficient detail for the Department to provide notice of the project.*

There was a physical change to the on-farm irrigation system from a multiple emitter drip system for strip irrigation of trees to a center pivot irrigation system equipped with high efficiency nozzles for row crops. The center pivots are equipped with low pressure, low flow spray nozzles designed to apply 7.5 gpm of water per acre (0.017 cfs/ac) with up to 3.5 acre-feet per acre per season. Note: these changes did not involve a change in the point of diversion.

Certificate 95155 authorizes the use of up to 1/40 cfs per acre (0.025 cfs/ac) and 4.5 AF per acre during the irrigation season. As discussed above, the pre-project irrigation system utilized the full rate and seasonal volume authorized by the water right. The completed on-farm irrigation system change to center pivots with high efficiency nozzles resulted in:

- A reduction in the instantaneous irrigation rate from 184.71 cfs (rate authorized by Certificate 95155) to 124.79 cfs (0.0167 cfs/ac* 7472.54 acres), for a resulting conservation of 59.92 cfs
- A reduction in the seasonal volume of use from up to 4.5 AF per acre to 3.5 AF per acre, for a resulting conservation of 7,472.54 AF (1.0 AF/ac * 7472.54 acres).

**Existing Point(s) of Diversion:**

| POD | Twp | | Rng | | Sec | ¼ | ¼ | Tax Lot | Gvt Lot or DLC | Measured Distances or Latitude and Longitude |
|---|---|---|---|---|---|---|---|---|---|---|
| CRPS | 4 | N | 25 | E | 2 | NE | NW | | 7 | South 86 degrees 22 minutes 46 seconds west, 289 feet from the NE corner of Section 2 |

**Place of Use Involved in Conservation Measures:**

List only the part of the right that will be affected. If the entire right is being affected, just state "entire Certificate."

| Twp | | Rng | | Sec | ¼ | ¼ | Tax Lot | Gvt Lot or DLC | Acres | Type of Use listed On Certificate | Priority Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | S | 9 | E | 15 | NE | NW | 200 | 43 | 153.0 | EXAMPLE | 1/1/1865 |
| Entire Certificate | | | | | | | | | 7,472.54 | Irrigation | 6/29/1973 |
| | | | | | | | | Total | 7,472.54 | | |

Are there other water right certificates, water use permits, ground water registrations, or uncertificated decreed rights associated with the above lands? ☐ Yes ☒ No. If YES, list the certificates, water use permits, groundwater registrations, or uncertificated decree numbers: _____

Is the project within the boundaries of an irrigation district or water control district? ☒ Yes ☐ No If YES, and applicant is not a District, you must provide a letter of approval from the District.

**Table 2: Conserved Water**

In Column A, list the smaller of A or B from Table 1 (Pre-Project Description). In Column B, list the amount of water that will be needed for the existing, authorized use(s) after implementing the conservation measures. In Column C, subtract Column B from Column A and enter the results *(e.g.,* A – B = C). (*If the water right is only limited by rate, do not list a duty; and conversely, if the water is only limited by duty, do not list a rate.*)

| Conserved Water Description | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Column A | | | | Column B | | | | Column C | | |
| | Table 1 – Smaller of A or B | | | | Needed | | | | Conserved Water | | |
| | Rate | | Duty | | Rate | | Duty | | Rate | Duty | |
| Priority | Maximum CFS | CFS/AC | Maximum AF | AF/AC | Maximum CFS | CFS/AC | Maximum AF | AF/AC | Maximum CFS | Maximum AF | AF/AC |
| 6/29/1973 | 184.71 | 0.025 | 33,626.43 | 4.5 | 124.79 | 0.0167 | 26,153.89 | 3.5 | 59.92 | 7,472.54 | 1.0 |
| **Totals** | 184.71 | | 33,626.43 | | 124.79 | | 26,153.89 | | 59.92 | 7,472.54 | |

**Table 3: Allocation of Conserved Water**

List the portions of the conserved water that will be allocated to the state and applicant. Note: Column A plus Column B should total Column C (e.g., A + B = C).

| Conserved Water Allocation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Column A | | | Column B | | | Column C | | |
| State's Portion | | | Applicant's Portion | | | Conserved Water | | |
| Percentage* | Maximum Rate | Maximum Duty (Volume) | Percentage | Maximum Rate | Maximum Duty (Volume) | Percentage | Maximum Rate | Maximum Duty (Volume) |
| 25% | 14.98 | 1,868.13 | 75% | 44.94 | 5,604.41 | 100% | 59.92 | 7,472.54 |

** must be at least 25%*

The priority for the conserved water is requested to be:

☐ The same as the original right, or

☒ One minute junior to the original right.

## Part 4 of 4 – Mitigation, Proposed Use, Project Schedule, Funding, and Fee Calculation

**MITIGATION:**

Describe any expected effects from the proposed allocation of conserved water on other water rights. Describe what currently happens to the water that is proposed to be conserved. Prior to the applicant making the change to the irrigation application system that resulted in the water conservation documented in this application, the conserved water was withdrawn from the Columbia River and used for irrigation by the pre-project irrigation system. The conservation measures have reduced the rate and volume of withdrawal from the Columbia River under the two water rights involved in this applciation. The state's portion of the conserved water will be left in stream.

Describe any mitigation or other measures that are planned to avoid harm to other water rights. This project is not expected to result in any harm to other water rights.

**PROPOSED USE:**

**New Out-of Stream Uses:**

☒ ☐ N/A For new out-of-stream uses, describe the intended use and boundaries of the expected area within which the diversion structures and places of use of the applicants' conserved water right will be located. This is land other than that to which this water right is appurtenant.
Intended Use: Primary irrigation.
(NOTE: There is no intent to "layer" the applicant's portion of the conserved water with any other primary irrigation water rights that may be appurtenant to the place of use where the conserved water is proposed for use by the applicant in a given year)

Boundaries: The lands on where the applicant anticipates that it may use its share of conserved water is located within the following area:

| Twn | Range | Twn | Range | Twn | Range | Twn | Range | Twn | Range | Twn | Range |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 22E | 2N | 22E | 3N | 22E | 4N | 22E | 5N | 25E | 6N | 30E |
| 1N | 23E | 2N | 23E | 3N | 23E | 4N | 23E | 5N | 26E | 6N | 31E |
| 1N | 24E | 2N | 24E | 3N | 24E | 4N | 24E | 5N | 27E | | |
| 1N | 25E | 2N | 26E | 3N | 26E | 4N | 25E | 5N | 28E | | |
| 1N | 26E | 2N | 27E | 3N | 27E | 4N | 26E | 5N | 29E | | |
| 1N | 27E | 2N | 28E | 3N | 28E | 4N | 27E | 5N | 30E | | |
| 1N | 28E | 2N | 29E | 3N | 29E | 4N | 28E | 5N | 31E | | |
| 1N | 29E | 2N | 30E | 3N | 30E | 4N | 29E | | | | |
| 1N | 30E | 2N | 31E | 3N | 31E | 4N | 30E | | | | |
| 1N | 31E | | | | | 4N | 31E | | | | |

Will the new use require a change or additional point of diversion/appropriation?

☒ Yes ☐ No ☐ Unknown at this time

**New Additional Point of Diversion: (NOTE: the original POD will continue to be used)**

| POD | Twp | | Rng | | Sec | ¼ | ¼ | Tax Lot | Gvt Lot or DLC | Measured Distances or Latitude and Longitude |
|---|---|---|---|---|---|---|---|---|---|---|
| EID | 5 | N | 30 | E | 8 | SW | NW | 200 | | 2910 feet North and 120 feet East from SW corner of Section 8 |

**New Instream Uses to be Created (State's Portion):**

| Originating Surface Water Right (as identified in Part 3) | Priority Date | Source | Proposed Instream Period | Rate (cfs)* | Volume (ac-ft)** |
|---|---|---|---|---|---|
| 95154 | 7/25/1973 | Columbia River | Irrigation Season | ~~6.96~~ 6.35 | ~~1,680.30~~ 1,532.94 |
| 95155 | 6/29/2073 | Columbia River | Irrigation Season | 14.98 | 1,868.13 |
| | | | | **TOTAL VOLUME** | ~~3,548.43~~ 3,401.07 * |

To calculate rate (if other than the rate allowed by the right), divide the volume by the number of days in the period and then divide by 1.983471; or

** To calculate volume, multiply the rate by the number of days in the instream period and then multiply by 1.983471.

**Note:** The instream rate may not exceed the maximum rate conserved and the total volume may not exceed to maximum duty or volume conserved (Table 3, Column C).

**Location of the proposed instream water right.**

☒ ~~☒~~ Water is requested to be protected within a reach. Location of the proposed reach (identify the extent of the reach): *(e.g., from the upstream POD located at RM ___ to downstream location at the mouth at RM ____)* ~~From the location of the POD in the Columbia River, located in Lot 7 (NE NW), Section 2, T4N, R25E, WM; South 86 Degrees 22 Minutes 46 Seconds West, 2829 Feet from the NE Corner, Section 2, downstream to the mouth of the Columbia River.~~

**OR**

☒ ~~☐~~ Water is requested to be protected at a point at the following location (i.e. legal description of the point of diversion (POD)): Located in Lot 7 (NE NW), Section 2, T4N, R25E, WM; South 86 Degrees 22 Minutes 46 Seconds West, 2829 Feet from the NE Corner, Section 2.~~———~~

**Public Use for which conserved water right should be managed under an instream right** (check at least one box):

☒ Conservation, maintenance and enhancement of aquatic and fish life, wildlife, fish and wildlife habitat, and other ecological values.

☐ Recreation and scenic attraction.

☐ Water Quality (e.g. pollution abatement).

**List any existing instream water rights at the same point or within the same requested reach(es):**

☐ None.

☒ Instream Water Right Certificates: 86126, 89859, 88064, 89235, 89303, 89660, 89741, 89739, 89737, 89659, 89658, 89302, 90152.

☐ N/A Is it your intent to have the proposed instream water right transfer be additive to any instream water right established under ORS 537.348 (instream transfer application process) and ORS 537.470 (allocation of conserved water) and replace a portion of any instream water right established under ORS 537.341 (state agency application process) and ORS 537.346 (conversion of minimum perennial streamflows) with an earlier priority date?

☒ Yes ☐ No. If no, please explain your intent below:

Is the requested instream flow intended to exceed the estimated average natural flow or natural lake level occurring from the drainage system?

☒ No; **OR**

☐ Yes (Provide supporting documentation that demonstrates why additional flows are significant for the public use requested.); **OR**

☐ Yes, and it is presumed that flows that exceed the estimated average natural flow or natural lake levels are significant because:

- ☐ The requested flow does not exceed the maximum amount of any instream water right applied for under ORS 537.338 (state agency instream water right application process); the requested public use is for the same public use; and the requested reach covers a portion or same reach as the state agency instream water right; **and**
- ☐ The stream is in an ODFW flow restoration priority watershed during the requested instream period; **or**
- ☐ The stream is listed as water quality limited by DEQ.

**PROJECT SCHEDULE:**

☐ ☒ N/A For a project that has **not** been completed, please provide the dates on which the applicant intends to do the following:

| Begin Construction | Complete Construction and File Notice of Completion | Request that Entire Conserved Water Allocation be Finalized |
|---|---|---|
| *Date:* | *Date:* | **Date:* |

** Must be within 5 years from the date of filing the Notice of Completion.*

**Note:** If construction of the project has begun or has been completed, and if more than 25 percent of the project costs have been expended before submitting this application, you must submit evidence that you have attempted to identify and resolve the concerns of water right holders in the area, governmental entities or other organization who have asked to be consulted regarding the allocation of conserved water.

☒ ☐ N/A For a project that has been completed, provide the dates when the conservation measures were implemented and the date by which the applicant intends to request the allocation be finalized. Complete and attach Notice of Completion form.

| Conservation Measures Were Implemented | Request that Entire Conserved Water Allocation be Finalized |
|---|---|
| **Date: Project began in 2016 and was completed in 2019* | ***Date: To be finalized upon approval of this allocation of conserved water application* |

** Must be within 5 years prior to the date of filing this application.*

*** Must be within 5 years from the date of filing this Application and Notice of Completion.*

## FUNDING

☐ ☒ N/A Federal or state public funds that are not subject to repayment are to be used for the project. *Refer to OAR 690-018-0040(18)(a)-(d) for further information in completing this section.*

☐ Source of Funding: ☐ Federal: _____ ☐ State: _____

☐ Total cost for project engineering $_____
Total cost for construction $_____

☐ The present value of any incremental changes in the cost of operations and maintenance that are directly attributable to the project that would not be incurred or realized in the absence of the project is $_____.

☐ The amount of funding and the value of any in-kind contributions for project engineering and construction and for any incremental changes in the costs of operations and maintenance to be provided from federal or state public funds that are not subject to repayment is $_____.

☐ The amount of funding and the value of any in-kind contributions for project engineering and construction and for any incremental change since costs of operations and maintenance to be provided from other funds is $_____.

☐ ☒ N/A Enter the percentage from Table 3, Column B (Applicant's Portion of Conserved Water) _____%. If this is more than 25%, what portion of project funds (expressed as a percentage) come from federal or state public sources? _____%

☐ ☒ N/A The Oregon Watershed Enhancement Board (OWEB) has a contractual interest in this project. The OWEB project number is_____.

## FEE CALCULATION

Received by OWRD
FEB 19 2021
Salem, OR

| Fee Schedule – ORS 536.050 https://www.oregon.gov/OWRD/Forms/Pages/default.aspx | |
|---|---|
| $1,160.00 - Base (1st Water Right) | Add $410.00 for each additional right |
| $1,160 + (1x $410) = Total Fee $1,570 | |

| Fee Waiver Worksheet | |
|---|---|
| To qualify for a waiver of up to 50%, you must provide evidence to establish your application meets the following criteria: | |
| | (a) Will be converted to an instream right pursuant to ORS 537.348; **or** |
| | (b) Is necessary to complete a project funded under ORS 541.375 (OWEB); **or** |
| | (c) Is approved by the Oregon Department of Fish and Wildlife as a project that will result in a net benefit to fish and wildlife habitat. *See* OAR 690-018-0040(25). |
| If the project meets one of the above standards, use the following formula to calculate the fees: | |
| | (d) Enter Percentage from Table 3, Column A = _____% |
| | (e) Deduct 25% from percentage in (d) above = _____% |
| | (f) Enter the lesser of (e) above or 50% _____ |
| | (g) Total Fee x % waived (f) = Fee Waiver $_____ |
| | *Example: (d) = 100% - 25% (e) = 75% (max 50% waived) = Fee x 50% = Fee Waiver* |
| | **Total Fee $1,570 – Fee Waiver (g) $0 = Amount Due $1,570** |

**Table A – Place of Use Involved in Conservation Measure**
(Portion of Certificate 95154, resulting from Transfer T-12522)

| Twp | Rng | Mer | Sec | Q-Q | GLot | Acres |
|---|---|---|---|---|---|---|
| 3 N | 26 E | WM | 1 | NE NE | 2 | 31.00 |
| 3 N | 26 E | WM | 1 | NW NE | 2 | 30.89 |
| 3 N | 26 E | WM | 1 | SW NE | 1 | 31.63 |
| 3 N | 26 E | WM | 1 | SE NE | 1 | 31.00 |
| 3 N | 26 E | WM | 1 | NE NW | 2 | 31.07 |
| 3 N | 26 E | WM | 1 | NW NW | 2 | 29.40 |
| 3 N | 26 E | WM | 1 | SW NW | 1 | 31.38 |
| 3 N | 26 E | WM | 1 | SE NW | 1 | 32.36 |
| 3 N | 26 E | WM | 1 | NE SW | | 33.14 |
| 3 N | 26 E | WM | 1 | NW SW | | 26.91 |
| 3 N | 26 E | WM | 1 | SW SW | | 27.24 |
| 3 N | 26 E | WM | 1 | SE SW | | 32.55 |
| 3 N | 26 E | WM | 1 | NE SE | | 31.73 |
| 3 N | 26 E | WM | 1 | NW SE | | 27.52 |
| 3 N | 26 E | WM | 1 | SW SE | | 25.99 |
| 3 N | 26 E | WM | 1 | SE SE | | 29.20 |
| 3 N | 26 E | WM | 2 | NE NE | 2 | 30.75 |
| 3 N | 26 E | WM | 2 | NW NE | 2 | 29.87 |
| 3 N | 26 E | WM | 2 | SW NE | 1 | 31.06 |
| 3 N | 26 E | WM | 2 | SE NE | 1 | 32.14 |
| 3 N | 26 E | WM | 2 | NE NW | 2 | 31.09 |
| 3 N | 26 E | WM | 2 | NW NW | 2 | 29.70 |
| 3 N | 26 E | WM | 2 | SW NW | 1 | 30.48 |
| 3 N | 26 E | WM | 2 | SE NW | 1 | 32.34 |
| 3 N | 26 E | WM | 2 | NE SW | 1 | 31.76 |
| 3 N | 26 E | WM | 2 | NW SW | | 29.77 |
| 3 N | 26 E | WM | 2 | SW SW | | 29.92 |
| 3 N | 26 E | WM | 2 | SE SW | | 32.79 |
| 3 N | 26 E | WM | 2 | NE SE | | 30.51 |
| 3 N | 26 E | WM | 2 | NW SE | | 28.45 |
| 3 N | 26 E | WM | 2 | SW SE | | 29.64 |
| 3 N | 26 E | WM | 2 | SE SE | | 32.36 |
| 3 N | 26 E | WM | 3 | NE NE | 2 | 30.00 |
| 3 N | 26 E | WM | 3 | NW NE | 2 | 31.84 |
| 3 N | 26 E | WM | 3 | SW NE | 1 | 31.12 |
| 3 N | 26 E | WM | 3 | SE NE | 1 | 29.95 |
| 3 N | 26 E | WM | 3 | NE NW | 2 | 28.87 |
| 3 N | 26 E | WM | 3 | NW NW | 2 | 29.12 |
| 3 N | 26 E | WM | 3 | SW NW | 1 | 30.78 |
| 3 N | 26 E | WM | 3 | SE NW | 1 | 31.27 |
| 3 N | 26 E | WM | 3 | NE SW | | 31.44 |
| 3 N | 26 E | WM | 3 | NW SW | | 30.96 |
| 3 N | 26 E | WM | 3 | SW SW | | 29.47 |
| 3 N | 26 E | WM | 3 | SE SW | | 30.76 |
| 3 N | 26 E | WM | 3 | NE SE | | 30.91 |
| 3 N | 26 E | WM | 3 | NW SE | | 31.99 |

| Twp | Rng | Mer | Sec | Q-Q | GLot | Acres |
|---|---|---|---|---|---|---|
| 3 N | 26 E | WM | 3 | SW SE | | 29.03 |
| 3 N | 26 E | WM | 3 | SE SE | | 28.83 |
| 3 N | 26 E | WM | 5 | NE SW | | 31.65 |
| 3 N | 26 E | WM | 5 | NW SW | | 29.07 |
| 3 N | 26 E | WM | 5 | SW SW | | 29.17 |
| 3 N | 26 E | WM | 5 | SE SW | | 30.71 |
| 3 N | 26 E | WM | 5 | NE SE | | 29.85 |
| 3 N | 26 E | WM | 5 | NW SE | | 30.15 |
| 3 N | 26 E | WM | 5 | SW SE | | 30.47 |
| 3 N | 26 E | WM | 5 | SE SE | | 30.26 |
| 3 N | 26 E | WM | 8 | NE NE | | 29.68 |
| 3 N | 26 E | WM | 8 | NW NE | | 32.42 |
| 3 N | 26 E | WM | 8 | SW NE | | 35.35 |
| 3 N | 26 E | WM | 8 | SE NE | | 27.15 |
| 3 N | 26 E | WM | 8 | NE NW | | 8.2 |
| 3 N | 26 E | WM | 8 | NE SE | | 30.02 |
| 3 N | 26 E | WM | 8 | NW SE | | 36.89 |
| 3 N | 26 E | WM | 8 | SW SE | | 32.45 |
| 3 N | 26 E | WM | 8 | SE SE | | 27.67 |
| 3 N | 26 E | WM | 9 | NE NE | | 29.31 |
| 3 N | 26 E | WM | 9 | NW NE | | 31.09 |
| 3 N | 26 E | WM | 9 | SW NE | | 32.27 |
| 3 N | 26 E | WM | 9 | SE NE | | 29.78 |
| 3 N | 26 E | WM | 9 | NE NW | | 29.34 |
| 3 N | 26 E | WM | 9 | NW NW | | 31.49 |
| 3 N | 26 E | WM | 9 | SW NW | | 33.76 |
| 3 N | 26 E | WM | 9 | SE NW | | 30.92 |
| 3 N | 26 E | WM | 9 | NE SW | | 27.68 |
| 3 N | 26 E | WM | 9 | NW SW | | 32.50 |
| 3 N | 26 E | WM | 9 | SW SW | | 32.45 |
| 3 N | 26 E | WM | 9 | SE SW | | 27.31 |
| 3 N | 26 E | WM | 9 | NE SE | | 29.07 |
| 3 N | 26 E | WM | 9 | NW SE | | 32.39 |
| 3 N | 26 E | WM | 9 | SW SE | | 30.94 |
| 3 N | 26 E | WM | 9 | SE SE | | 28.05 |
| 3 N | 26 E | WM | 11 | NE NE | | 31.39 |
| 3 N | 26 E | WM | 11 | NW NE | | 31.86 |
| 3 N | 26 E | WM | 11 | SW NE | | 30.37 |
| 3 N | 26 E | WM | 11 | SE NE | | 31.10 |
| 3 N | 26 E | WM | 11 | NE NW | | 31.47 |
| 3 N | 26 E | WM | 11 | NW NW | | 30.23 |
| 3 N | 26 E | WM | 11 | SW NW | | 29.99 |
| 3 N | 26 E | WM | 11 | SE NW | | 32.71 |
| 3 N | 26 E | WM | 11 | NE SW | | 33.08 |
| 3 N | 26 E | WM | 11 | NW SW | | 30.88 |
| 3 N | 26 E | WM | 11 | SW SW | | 28.79 |
| 3 N | 26 E | WM | 11 | SE SW | | 32.48 |
| 3 N | 26 E | WM | 11 | NE SE | | 32.24 |
| 3 N | 26 E | WM | 11 | NW SE | | 31.89 |

| Twp | Rng | Mer | Sec | Q-Q | GLot | Acres |
|---|---|---|---|---|---|---|
| 3 N | 26 E | WM | 11 | SW SE | | 29.29 |
| 3 N | 26 E | WM | 11 | SE SE | | 31.10 |
| 3 N | 26 E | WM | 12 | NE NE | | 32.28 |
| 3 N | 26 E | WM | 12 | NW NE | | 28.13 |
| 3 N | 26 E | WM | 12 | SW NE | | 28.64 |
| 3 N | 26 E | WM | 12 | SE NE | | 31.74 |
| 3 N | 26 E | WM | 12 | NE NW | | 32.27 |
| 3 N | 26 E | WM | 12 | NW NW | | 27.96 |
| 3 N | 26 E | WM | 12 | SW NW | | 28.44 |
| 3 N | 26 E | WM | 12 | SE NW | | 31.74 |
| 3 N | 26 E | WM | 12 | NE SW | | 32.53 |
| 3 N | 26 E | WM | 12 | NW SW | | 30.04 |
| 3 N | 26 E | WM | 12 | SW SW | | 26.89 |
| 3 N | 26 E | WM | 12 | SE SW | | 27.58 |
| 3 N | 26 E | WM | 12 | NE SE | | 32.49 |
| 3 N | 26 E | WM | 12 | NW SE | | 29.96 |
| 3 N | 26 E | WM | 12 | SW SE | | 26.34 |
| 3 N | 26 E | WM | 12 | SE SE | | 28.22 |
| 3 N | 26 E | WM | 13 | NE NE | | 29.83 |
| 3 N | 26 E | WM | 13 | NW NE | | 30.58 |
| 3 N | 26 E | WM | 13 | SW NE | | 30.62 |
| 3 N | 26 E | WM | 13 | SE NE | | 29.74 |
| 3 N | 26 E | WM | 13 | NE NW | | 30.90 |
| 3 N | 26 E | WM | 13 | NW NW | | 30.47 |
| 3 N | 26 E | WM | 13 | SW NW | | 31.19 |
| 3 N | 26 E | WM | 13 | SE NW | | 30.07 |
| 3 N | 26 E | WM | 13 | NE SW | | 31.13 |
| 3 N | 26 E | WM | 13 | NW SW | | 31.67 |
| 3 N | 26 E | WM | 13 | SW SW | | 30.48 |
| 3 N | 26 E | WM | 13 | SE SW | | 29.32 |
| 3 N | 26 E | WM | 13 | NE SE | | 30.63 |
| 3 N | 26 E | WM | 13 | NW SE | | 31.78 |
| 3 N | 26 E | WM | 13 | SW SE | | 30.93 |
| 3 N | 26 E | WM | 13 | SE SE | | 29.27 |
| 3 N | 27 E | WM | 4 | NE SW | | 29.94 |
| 3 N | 27 E | WM | 4 | NW SW | | 29.30 |
| 3 N | 27 E | WM | 4 | SW SW | | 31.22 |
| 3 N | 27 E | WM | 4 | SE SW | | 30.30 |
| 3 N | 27 E | WM | 5 | NE SW | | 30.04 |
| 3 N | 27 E | WM | 5 | NW SW | | 31.79 |
| 3 N | 27 E | WM | 5 | SW SW | | 30.21 |
| 3 N | 27 E | WM | 5 | SE SW | | 28.66 |
| 3 N | 27 E | WM | 5 | NE SE | | 25.89 |
| 3 N | 27 E | WM | 5 | NW SE | | 29.50 |
| 3 N | 27 E | WM | 5 | SW SE | | 30.65 |
| 3 N | 27 E | WM | 5 | SE SE | | 27.36 |
| 3 N | 27 E | WM | 6 | NE NE | | 24.32 |
| 3 N | 27 E | WM | 6 | NW NE | | 35.50 |
| 3 N | 27 E | WM | 6 | SW NE | | 34.02 |

| Twp | Rng | Mer | Sec | Q-Q | GLot | Acres |
|---|---|---|---|---|---|---|
| 3 N | 27 E | WM | 6 | SE NE | | 23.86 |
| 3 N | 27 E | WM | 6 | NE NW | | 25.37 |
| 3 N | 27 E | WM | 6 | NW NW | | 38.94 |
| 3 N | 27 E | WM | 6 | SW NW | | 38.80 |
| 3 N | 27 E | WM | 6 | SE NW | | 26.08 |
| 3 N | 27 E | WM | 6 | NE SW | | 27.68 |
| 3 N | 27 E | WM | 6 | NW SW | | 35.24 |
| 3 N | 27 E | WM | 6 | SW SW | | 31.03 |
| 3 N | 27 E | WM | 6 | SE SW | | 25.51 |
| 3 N | 27 E | WM | 6 | NE SE | | 29.18 |
| 3 N | 27 E | WM | 6 | NW SE | | 32.12 |
| 3 N | 27 E | WM | 6 | SW SE | | 30.67 |
| 3 N | 27 E | WM | 6 | SE SE | | 28.70 |
| 3 N | 27 E | WM | 7 | NE NE | | 27.64 |
| 3 N | 27 E | WM | 7 | NW NE | | 31.89 |
| 3 N | 27 E | WM | 7 | SW NE | | 31.83 |
| 3 N | 27 E | WM | 7 | SE NE | | 28.99 |
| 3 N | 27 E | WM | 7 | NE NW | | 25.12 |
| 3 N | 27 E | WM | 7 | NW NW | | 36.05 |
| 3 N | 27 E | WM | 7 | SW NW | | 34.85 |
| 3 N | 27 E | WM | 7 | SE NW | | 25.52 |
| 3 N | 27 E | WM | 7 | NE SW | | 24.60 |
| 3 N | 27 E | WM | 7 | NW SW | | 36.64 |
| 3 N | 27 E | WM | 7 | SW SW | | 31.65 |
| 3 N | 27 E | WM | 7 | SE SW | | 21.96 |
| 3 N | 27 E | WM | 7 | NE SE | | 27.11 |
| 3 N | 27 E | WM | 7 | NW SE | | 33.65 |
| 3 N | 27 E | WM | 7 | SW SE | | 32.12 |
| 3 N | 27 E | WM | 7 | SE SE | | 26.86 |
| 3 N | 27 E | WM | 8 | NE SW | | 28.52 |
| 3 N | 27 E | WM | 8 | NW SW | | 32.21 |
| 3 N | 27 E | WM | 8 | SW SW | | 31.17 |
| 3 N | 27 E | WM | 8 | SE SW | | 28.55 |
| 3 N | 27 E | WM | 8 | NE SE | | 29.37 |
| 3 N | 27 E | WM | 8 | NW SE | | 31.04 |
| 3 N | 27 E | WM | 8 | SW SE | | 30.57 |
| 3 N | 27 E | WM | 8 | SE SE | | 29.78 |
| 3 N | 27 E | WM | 9 | NE NW | | 30.62 |
| 3 N | 27 E | WM | 9 | NW NW | | 29.39 |
| 3 N | 27 E | WM | 9 | SW NW | | 30.62 |
| 3 N | 27 E | WM | 9 | SE NW | | 30.13 |
| 3 N | 27 E | WM | 9 | NE SW | | 29.93 |
| 3 N | 27 E | WM | 9 | NW SW | | 30.29 |
| 3 N | 27 E | WM | 9 | SW SW | | 31.28 |
| 3 N | 27 E | WM | 9 | SE SW | | 29.25 |
| 3 N | 27 E | WM | 9 | NE SE | | 30.60 |
| 3 N | 27 E | WM | 9 | NW SE | | 30.32 |
| 3 N | 27 E | WM | 9 | SW SE | | 31.36 |
| 3 N | 27 E | WM | 9 | SE SE | | 30.35 |

| Twp | Rng | Mer | Sec | Q-Q | GLot | Acres |
|---|---|---|---|---|---|---|
| 3 N | 27 E | WM | 18 | NW SW | | 0.01 |
| 3 N | 27 E | WM | 18 | SW SE | | 16.79 |
| 4 N | 26 E | WM | 33 | SE NE | | 0.45 |
| 4 N | 26 E | WM | 33 | NE SE | | 36.12 |
| 4 N | 26 E | WM | 33 | NW SE | | 9.85 |
| 4 N | 26 E | WM | 33 | SW SE | | 14.27 |
| 4 N | 26 E | WM | 33 | SE SE | | 36.71 |
| 4 N | 26 E | WM | 34 | SW NE | | 1.10 |
| 4 N | 26 E | WM | 34 | SE NE | | 0.78 |
| 4 N | 26 E | WM | 34 | NE SW | | 1.27 |
| 4 N | 26 E | WM | 34 | NW SW | | 11.24 |
| 4 N | 26 E | WM | 34 | SW SW | | 33.52 |
| 4 N | 26 E | WM | 34 | SE SW | | 36.76 |
| 4 N | 26 E | WM | 34 | NE SE | | 28.41 |
| 4 N | 26 E | WM | 34 | NW SE | | 35.42 |
| 4 N | 26 E | WM | 34 | SW SE | | 31.15 |
| Total | | | | | | 6,131.78 |

Received by OWRD

FEB 19 2021

Salem, OR

State of Oregon
**Water Resources Department**
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900

# Surface Water
# Allocation of Conserved Water
## Request for Finalization
## For
## CW 119

### Applicant Information

| APPLICANT/BUSINESS NAME | | | PHONE NO. | ADDITIONAL CONTACT NO. |
|---|---|---|---|---|
| **Farmland Reserve, Inc.** | | | JENS RASMUSSEN 509-820-3234 | |
| ADDRESS | | | | FAX NO. |
| PO BOX 2308 | | | | |
| CITY | STATE | ZIP | E-MAIL | |
| PASCO | WA | 99302 | JRASMUSSEN@AGRINW.COM | |

*(If submitting with an Application, complete only the Applicant name)*

The above applicant requests that the allocation of conserved water be finalized. The construction of the conservation measure(s) has been completed that resulted in conserved water.

List the portions of the conserved water allocated to the applicant as listed in the Order Approving Allocation of Conserved Water or an Order issued pursuant to OAR 690-018-0062(2).

| Applicant's Portion of Conserved Water | |
|---|---|
| Maximum Rate (CFS) | Maximum Duty (Volume)/AF |
| 64.00 | 10,203.25 |

☒ All or part of the Applicant's portion of the conserved water is to be:

☐ Leased (*If water is to be temporarily leased instream, a separate Instream Lease Application must be submitted.*); _____ CFS; _____ AF

☐ Dedicated instream (permanent); _____ CFS; _____ AF

☐ Temporarily reserved instream for future out-of-stream use; _____ CFS; _____ AF

☒ Used out-of-stream as described below.

☒ ☐ N/A Out-of-Stream Use. Describe the Applicant's portion of the conserved water to be used for an out-of-stream use at the location below.

| Applicant's Conserved Water | | | | | Applicant's Conserved Water Remaining | |
|---|---|---|---|---|---|---|
| Certificate | Priority | Type of Use | Rate (CFS) | Volume (AF) | CFS | Volume |
| 95154 | 7/25/1973 | Irrigation | 19.06 | 4,598.84 | 0 | 0 |
| 95155 | 6/26/1973 | Irrigation | 44.94 | 5,604.41 | 0 | 0 |
| | | **Totals** | 64.00 | 10,203.25 | 0 | 0 |

Describe the point of diversion that will be used to deliver water to the new place of use:

| POD | Twp | Rng | Mer | Sec | Q-Q | Measured Distances |
|---|---|---|---|---|---|---|
| CRPS | 4 N | 25 E | WM | 2 | NE NW | South 86 degrees 22 minutes 46 seconds west, 289 feet from the NE corner of Section 2 |
| EID | 5 N | 30 E | WM | 8 | SW NW | 2910 feet North and 120 feet East from SW corner of Section 8 |

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Salem, OR

Name and address of the person using the water: Farmland Reserve, Inc.

Description of the type of beneficial use of the water: Primary Irrigation

Description of the place of use:

| Applicant's Conserved Water Out-of-Stream Use Location | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Twp | | Rng | | Sec | ¼ | ¼ | Tax Lot | Gvt Lot or DLC | Acres | Priority Date |
| 2 | S | 9 | E | 15 | NE | NW | 200 | Example | 153.0 | 1/1/1865 |
| Refer to attached table | | | | | | | | | | |
| Totals | | | | | | | | | 3,321.97 | |

☒ ☐ N/A A map depicting the lands identified above that meets the standards in OAR 690-310-0050 *(required if out-of-stream use table completed).*

☒ The above applicant requests that the allocation of conserved water be finalized. The applicant further requests that the Director issue:

1. A superseding certificate as provided for in the order approving the allocation of conserved water;
2. A certificate for an instream water right for the state's portion of the conserved water; and
3. An order allowing:
   a. The use of any portion of the conserved water allocated to the applicant, at the location and for the type of use identified in the tables above; and
   b. The use and management as an instream water right of any conserved water being leased, dedicated, or temporarily reserved instream.

Dated: _____

David K. Armstrong,
Vice President Farmland Reserve, Inc.
(Printed Applicant Name)

(Applicant's signature)

_____
(Printed Applicant Name)

_____
(Applicant's signature)