

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

Permit No: 86-11978

Exam Date: 8/15/2012

1. Current Owner: PORT OF LEWISTON  
1626 6TH AVE N  
LEWISTON ID 83501  
(208)743-5531
2. Accompanied by: David Doeringsfeld  
Phone No: (208) 743-5531  
Address: 1626 6<sup>th</sup> Ave N  
Relationship to Permit Holder: Port Manager

3. **SOURCE**

CLEARWATER RIVER

**TRIBUTARY**

SNAKE RIVER

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 86-11945
2. Other water rights with the same point of diversion: 86-11945

**C. DIVERSION AND DELIVERY SYSTEM**1. **LOCATION OF POINT(S) OF DIVERSION:**

CLEARWATER RIVER L4 SW1/4SE1/4

Sec. 25, Twp 36N, Rge 06W, B.M.

NEZ PERCE County

CLEARWATER RIVER L5 SE1/4SE1/4

Sec. 25, Twp 36N, Rge 06W, B.M.

NEZ PERCE County

Method of Determination: Field verification using a Garmin handheld GPS unit.

2.

**PLACE OF USE:** INDUSTRIAL

| Twp | Rge | Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|     |     |     | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> |        |
| 36N | 06W | 25  |           |           |           |           |           |           |           |           | X         |           | X         | X         |           |           | X         | X         |        |
|     |     |     |           |           |           |           |           |           |           |           | 2.3       |           | 1.7       | 1.2       |           |           | 1.4       | 1.5       |        |

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

**Well or Diversion**

| <b><u>ID No.*</u></b>        | <b><u>Motor Make</u></b> | <b><u>Hp</u></b> | <b><u>Motor Serial No.</u></b> | <b><u>Pump Make</u></b> | <b><u>Pump Serial No. or Discharge Size</u></b> |
|------------------------------|--------------------------|------------------|--------------------------------|-------------------------|-------------------------------------------------|
| POD #1<br>(submersible pump) | UNK                      | 20               | UNK                            | UNK                     | UNK                                             |
| POD #2<br>(gas powered pump) | Subaru                   | 6                | 2309855                        | N/A                     | Model #PKX201T                                  |

\*Code to correspond with No. on map and aerial photo

Method of Determination: Field verified through photographs and visual inspection.

**D. FLOW MEASUREMENTS**

- Flow measurements were not able to be taken as both of the PODs had the pumps removed at the time of the exam. A watering schedule for one of the tenants was provided during the exam that was used to calculate the maximum flow rate diverted historically.

**Measurement**

| <b><u>Equipment</u></b> | <b><u>Type</u></b> | <b><u>Make</u></b> | <b><u>Model No.</u></b> | <b><u>Serial No.</u></b> | <b><u>Size</u></b> | <b><u>Calib. Date</u></b> |
|-------------------------|--------------------|--------------------|-------------------------|--------------------------|--------------------|---------------------------|
|-------------------------|--------------------|--------------------|-------------------------|--------------------------|--------------------|---------------------------|

- Measurements: N/A

**E. FLOW CALCULATIONS**

\_\_\_X\_\_\_ Additional Computation Sheets Attached

Measured Method: Calculations were conducted to estimate the maximum diversion rate for the system using a watering schedule of one of the tenants operating under this permit.

Flow Rate = 27 sprinkler heads @ 4 gpm = 108 gpm = 0.24 cfs (per tenant)

Total diversion rate = 0.24 cfs X 2 = 0.48 cfs

0.3 cfs was licensed under 86-11945, leaving 0.18 cfs.

I recommend the 0.18 cfs that is permitted be licensed for this right.

**F. VOLUME CALCULATIONS**

- Volume Calculations for Irrigation: N/A No irrigation occurs through this permit.

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = N/A$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = N/A$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = N/A$$

## 2. Volume Calculations for Other Uses:

Based on the provided watering schedule, the annual volume of water diverted was estimated as follows:

| 86-11945                                                                        |                                               |                  | 86-11978                                               |         |
|---------------------------------------------------------------------------------|-----------------------------------------------|------------------|--------------------------------------------------------|---------|
| Water Right Flow rate<br>(0.3 cfs)                                              | Gallons<br>(based on<br>watering<br>schedule) | Flow rate (gpm)* | Flow rate<br>(difference<br>between 134 and<br>actual) | Gallons |
| 134                                                                             | 4656960                                       | 168              | 34                                                     | 942480  |
| 134                                                                             | 7257600                                       | 192              | 58                                                     | 2192400 |
| 134                                                                             | 1290240                                       | 192              | 58                                                     | 389760  |
| 134                                                                             | 1451520                                       | 216              | 82                                                     | 551040  |
| 134                                                                             | 3084480                                       | 216              | 82                                                     | 1170960 |
| 134                                                                             | 3175200                                       | 216              | 82                                                     | 1205400 |
| 134                                                                             | 1234800                                       | 168              | 34                                                     | 249900  |
| 134                                                                             | 940800                                        | 128              |                                                        |         |
| 134                                                                             | 860160                                        | 128              |                                                        |         |
| 134                                                                             | 403200                                        | 64               |                                                        |         |
| 134                                                                             | 188160                                        | 32               |                                                        |         |
| 134                                                                             | 99840                                         | 32               |                                                        |         |
| total gallons                                                                   | 24642960                                      |                  | total gallons                                          | 6701940 |
| total acre-feet                                                                 | 76                                            |                  | total acre-feet                                        | 21      |
| Volume assigned to 86-11978 (AF)                                                |                                               | 21               |                                                        |         |
|                                                                                 |                                               |                  |                                                        |         |
| * Estimated based on number of sprinklers operating based on watering schedule. |                                               |                  |                                                        |         |

Note: Calculations were conducted based on the number of sprinkler heads operated for a given number of hours for an assigned date range. Sprinkler nozzles were assumed to provide 4 gpm and the number in operation ranged from 4 to 27. Daily watering times were up to 17.5 hours per day. See attached watering schedule.

**G. NARRATIVE/REMARKS/COMMENTS**

The field exam for permit 86-11978 was conducted on 8/15/2012 by Dennis Owsley. David Doeringsfield, the port manager, accompanied me on the exam. This permit authorized the diversion of 0.30 cubic feet per second of surface water for industrial purposes. The source of water for this permit is the Clearwater River, diverted from two POD locations along the river. Water permit 86-11945 overlaps with this permit, using the same PODs and POU. The field exam for that permit will be described in a separate report.

During the field interview with the manager, he indicated industrial uses ceased in the fall of 2009. Therefore, at the time of the exam, there was no water being diverted or any operations being conducted on the POU. Historically, the water use for this permit was to sprinkle log decks on the POU. Two separate tenants operated off of this permit at the same time, both storing logs at the port.

The manager provided me with previous pumping records that he had available. One season of a pumping schedule for one of the lot tenants was available. Only one of the tenants provided a pumping schedule for their operations. Based on the provided pumping schedule, a maximum diversion rate of 108 gpm was required to operate 27 sprinkler heads at the peak demand time between June 25 through July 29<sup>th</sup>. It was assumed that the sprinklers provided 4 gallons per minute, and were operated on the schedule provided during the exam. With only one of the tenants providing a watering schedule, it was assumed that the second tenant operated under a similar watering schedule, with similar water demands. Therefore, the peak demand for this water right was 216 gpm, or 0.48 cfs. The total volume diverted was determined using the watering schedule was 76 acre-feet. The volume limit for this permit was limited to the amount above 0.3 cfs flow rate assigned to 86-11945. This value yielded an annual volume limit of 18 AF. The remainder of the volume will be assigned to the overlapping right 86-11945.

There are two PODs for this permit. The original POD is a well house along the edge of the Clearwater River. A submersible pump pumped water from a collection gallery in the river. At the time of the exam, the pump had been removed from the POD location and was stored in a nearby warehouse. Photos were taken of the pump in the warehouse as well as the POD location and well house.

Based on the observations during the field exam and the documentation provided during the exam, it appears this permit was put to beneficial use for watering log decks. I recommend this permit be approved for 0.18 cfs with an annual volume limit of 21 acre-feet.

Have conditions of permit approval been met? ☒ Yes ☐ No

**H. RECOMMENDATIONS****1. Recommended Amounts**

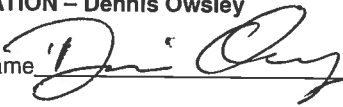
| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| INDUSTRIAL            | 01/01 to 12/31       | 0.18 CFS              | 21 AF                |
|                       | <u>Totals:</u>       | 0.18 CFS              | 21 AF                |

**2. Recommended Amendments**

☐ Change P.D. as reflected above    ☐ Add P.D. as reflected above    ☒ X\_None

☐ Change P.U. as reflected above    ☐ Add P.U. as reflected above    ☐ Other

**I. AUTHENTICATION – Dennis Owsley**

Field Examiner's Name  Date 9/24/2012

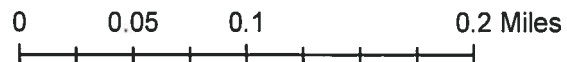
Reviewer \_\_\_\_\_ Date \_\_\_\_\_

State of Idaho  
Department of Water Resources

# Attachment To Water Right License

86-11978

This map depicts the INDUSTRIAL place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters



Field Exam 86-1197-6  
Delivery System Diagram



Field Exam 86-1197B  
Air Photo



Field exam photos for 86-11978.



Photo 1. View of the submersible pump (POD #1) after it was removed from production. Photo taken on 8/15/2012 by D.Owsley.



Photo 2. Close-up view of submersible pump from POD #1. Photo taken on 8/15/2012 by D.Owsley.



Photo #3. View of gas powered pump (POD #2). Photo taken by D. Owsley on 8/15/2012.



Photo #4. View of gas tank constructed to operate POD #2. Photo by D. Owsley taken on 8/15/2012.



Photo #5. View of empty hole where POD #1 was placed. Photo taken by D. Owsley on 8/15/2012.



Photo #6. Close-up view of empty borehole that housed POD #1. Photo by D. Owsley taken on 8/15/2012.



Photo #7. View of wellhouse for POD #1. Surface water intake is beneath the catwalk. View looking north. Photo taken by D. Owsley on 8/15/2012.



Photo #8. View of the north side of the wellhouse for POD #1 showing the disconnected distribution lines that provided water to both log watering operations. Photo by D. Owsley taken on 8/15/2012.



Photo #9. View of disconnected distribution line. Photo taken by D. Owsley on 8/15/2012.



Photo #10. View location for POD #2 and a portion of the place of use for this permit. Photo by D. Owsley taken on 8/15/2012.

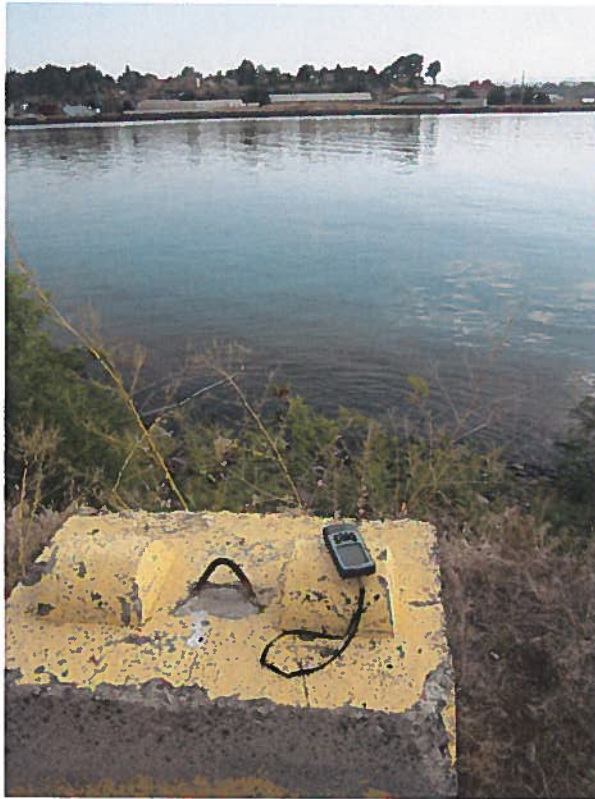


Photo #11. View of location of POD #2. Photo taken looking south out onto the Clearwater River. Photo taken by D. Owsley on 8/15/2012.

-2006-

## Riley Creek

### Watering Schedule for Lewiston logyard

| Month                          | Hours of watering             | # days/week | # of sprinklers | nozzle size |
|--------------------------------|-------------------------------|-------------|-----------------|-------------|
| January                        |                               | 0 0 days    |                 |             |
| February                       |                               | 0 0 days    |                 |             |
| March                          |                               | 0 0 days    |                 |             |
| April 3rd- April 8th           | 6:00AM-8:00AM <sup>7</sup> AM | 6 days      | 21              | 1/8" inch   |
| April 9th- April 15th          | 6:00AM-8:00AM <sup>7</sup> AM | 7 days      | 21              | 1/8" inch   |
| April 16th- April 22nd         | 6:00AM-8:00AM <sup>7</sup> AM | 7 days      | 21              | 1/8" inch   |
| April 23rd- April 29th         | 6:00AM-8:00AM <sup>7</sup> AM | 7 days      | 21              | 1/8" inch   |
| April 30th- May 6th            | 6:00AM-9:00PM                 | 7 days      | 21              | 1/8" inch   |
| May 7th- May 13th              | 6:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| May 14th- May 20th             | 6:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| May 21st- May 27th             | 6:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| May 28th-June 3rd              | 6:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| June 4th- June 10th            | 6:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| June 11th- June 17th           | 6:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| June 18th- June 24th           | 5:00AM-9:00PM                 | 7 days      | 24              | 1/8" inch   |
| June 25th- July 1st            | 5:00AM-9:00PM                 | 7 days      | 27              | 1/8" inch   |
| July 2nd- July 8th             | 5:00AM-10:00PM                | 7 days      | 27              | 1/8" inch   |
| July 9th- July 15th            | 5:00AM-10:00PM                | 7 days      | 27              | 1/8" inch   |
| July 16th- July 22nd           | 5:00AM-10:30PM                | 7 days      | 27              | 1/8" inch   |
| July 23rd- July 29th           | 5:00AM-10:30PM                | 7 days      | 27              | 1/8" inch   |
| July 30th-August 5th           | 5:00AM-10:30PM                | 7 days      | 21              | 1/8" inch   |
| August 6th- August 12th        | 5:00AM-10:30PM                | 7 days      | 16              | 1/8" inch   |
| August 13th- August 19th       | 6:00AM-10:00PM                | 7 days      | 16              | 1/8" inch   |
| August 20th- August 26th       | 6:00AM-9:00PM                 | 7 days      | 8               | 1/8" inch   |
| August 27th- September 2nd     | 6:00AM-8:00PM                 | 7 days      | 4               | 1/8" inch   |
| September 3rd- September 9th   | 6:00AM-7:00PM                 | 4 days      | 4               | 1/8" inch   |
| September 10th- September 16th |                               | 0 0 days    |                 |             |
| September 17th- September 23rd |                               | 0 0 days    |                 |             |
| September 24th- September 30th |                               | 0 0 days    |                 |             |
| October                        |                               | 0 0 days    |                 |             |
| November                       |                               | 0 0 days    |                 |             |
| December                       |                               | 0 0 days    |                 |             |