

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12076
Exam Date: 06/05/2025

1. Current Owner:
ALTA FOREST PRODUCTS LLC 810 NW ALTA WAY CHEHALIS WA 98532-7648
2. Accompanied by: Luke Machtolf
Phone No:509-867-6313
Address: Same as above
Relationship to permit Holder: Representative – Inland Log Procurement Manager

3. **SOURCE:**
CLEARWATER RIVER

Tributary
SNAKE RIVER

Method of Determination: ArcMap and DRG Layer.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Comments: The City of Lewiston holds several municipal Rights which have a service area overlapping this Permit's POU, but the water system(s) are not co-mingled and the Permit's Clearwater River diversion is the sole industrial log watering use by Alta Forest Products LLC at the POU. There isn't any overlapping concern between water rights.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

CLEARWATER RIVER L4 (NW¼ NW¼), Sec. 31, Twp 36N, Rge 05W, B.M. NEZ PERCE County

Method of Determination:

PLACE OF USE: INDUSTRIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
36N	05W	31					X L3	X L4											

Method of Determination: Beneficial use field examination and ArcMap aerial imagery.

3.
 - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 - ☒ Indicate weir size/pipe as applicable.
 - ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 - ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
 - ☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Submersible Pump in River	TOSHIBA	75	MODEL SD-75HP-36-TECF 365TS FRAME	PENTAIR AURORA # 7000546644 model # ROTELM 3X4X10C-410	3-INCH DISCHARGE COUPLES TO 4-INCH FLEXIBLE PIPE

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
FLOWMETER	FLANGED VELOCITY STYLE	GROWSMART	IM SERIES MODEL IM3000	GT19030179	3-INCH	MFD 3/2019

2. Measurements: The diverting works include an in-line flanged velocity style flowmeter which is installed immediately after the centrifugal pump; I observed 10-minute totalizer timed volume from the meter to evaluate average GPM which equaled 380 gpm or 0.85 cfs.

E. FLOW CALCULATIONS

Measured Method: Flow meter volume totalizer readings. Average pump capacity for 10-minute measurement period = 380 gpm.

- Permit authorized 0.76 cfs maximum diversion rate for development.
- Beneficial Use exam evaluated pump capacity:
 - Totalizer reading on flowmeter = 65098.0 gal (END reading) – 65094.2 gal (BEGIN reading) = 3.8 x 1,000-gal factor on meter = 3,800 gal / 10 min = 380 gpm or 0.85 cfs.
- License Recommendation – **0.76 cfs** based on Permit authorized maximum diversion rate authorized. The pump's capacity can supply 0.76 cfs and can be restricted in flow by a manual gate valve to remain in compliance.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: for industrial annual volume evaluation see attached Annual Volume Reports (provided by Representative) which demonstrate that FY2023, as the largest volume diversion year on record, from within the Permit's development period:

- Calculating formula: 2023 end volume – 2023 start volume x 1,000 gal (flowmeter factor) =
- [56,205.9 gal (10/31/2023) – 35,828.7 gal (5/10/2023)] x 1,000 = 20,377,200 gal / 325,850 gal per af = **62.5 af**.

G. NARRATIVE/REMARKS/COMMENTS

I conducted the beneficial use field exam on 6/5/2025 with the Permit Holder's representative, Luke Machtolf – Inland Log Procurement Manager, which showed Clearwater River water being diverted for industrial log watering use. At the POD, a Pentair brand centrifugal pump end paired with 75 hp Toshiba horizontal framed pump motor is situated in a small pump station building along the northern bank of the river. A flexible intake pipe with fish screen installed is routed down the steep riprapped rock embankment into the river; a rubber float ball is secured to the intake pipe to determine where the intake pipe in river is located.

As part of the diverting works, a Growsmart brand flowmeter is installed in-line just past the 3-inch discharge centrifugal pump and monitored by staff to track volumetric reporting data. I was unable to perform flow measurements using IDWR PT900 clamp on style flow meter due to the flexible hoses used on both diverting and conveyance pipelines. During the exam the diverting pump was operated for the entirety of the exam and I attempted to record instantaneous flow from the system installed flow meter but there was large fluctuation in instantaneous flow over the first 7 minutes, I observed 231, 446, 379, 416, 525, 300, and 311 (gpm) per minute using the digital read out on the flowmeter.

The system's flowmeter also captures volumetric reporting data in totalizer (gpm) readings with a 1,000-multiplier factor. Once the log watering system had equalized, I used a stopwatch to initiate a 10-min totalizer run time which resulted in an average diversion rate of 0.85 cfs. I'm only authorized to recommend **0.76 cfs** as the industrial use diversion rate and maximum diversion rate for license purposes. The permitted rate limits the Right Holder's maximum diversion rate. I spoke with Mr. Machtolf about the slight overage, and the system does have a gate valve that can restrict flow to reduce rate as required. If the system requires an additional diversion rate to operate at peak efficiency a new Application for Permit will be required to add an additional 0.09 cfs based on my field exam evaluation.

During the field exam I used field maps to sketch the Industrial POU, which consists of log decks awaiting transportation which are watered regularly to prevent checking. The water conveyance system incorporates all flexible hose pipelines that route around the south, west, and northern extent of the log decks with four (4) main tower big gun irrigation sprinklers. Additionally, a separate 2-inch flexible fire hose connection routes from the pump station for temporary use which extends eastward from the pump station for smaller sprinkler use and/or equipment cleaning as part of the industrial use. During the exam I collected photographs of the log watering system in use. Mr. Machtolf asserts the log decks rotate regularly, which is why flexible hoses are used to attach towers in case they need to be shifted to provide maximum coverage during rotational turnover in log deck watering operations.

The Permit authorized industrial use with a season of use from 5/1 to 10/30 annually. The annual volume reports submitted by Mr. Machtolf illustrate that since 2020 this season of use has been maintained and I've recommended retaining the same season of use for licensing. I used field maps and ArcMap aerial imagery during licensing review to trace out the industrial POU. I've recommended an annual volume of **62.5 af** based on the highest year on record within the development period of the Permit, which was 2023 (see attached volume report worksheet).

During licensing review, I removed condition 26A, and a text volume reporting condition which the Permit Holder complied with when they submitted the Statement of Completion form. All other conditions on the Permit shall be carried forward to the License. There aren't any overlapping water right concerns toward licensing Permit 86-12076.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
INDUSTRIAL	05/01 to 10/30	0.76 CFS	62.5 AF

Totals: 0.76 CFS 62.5 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

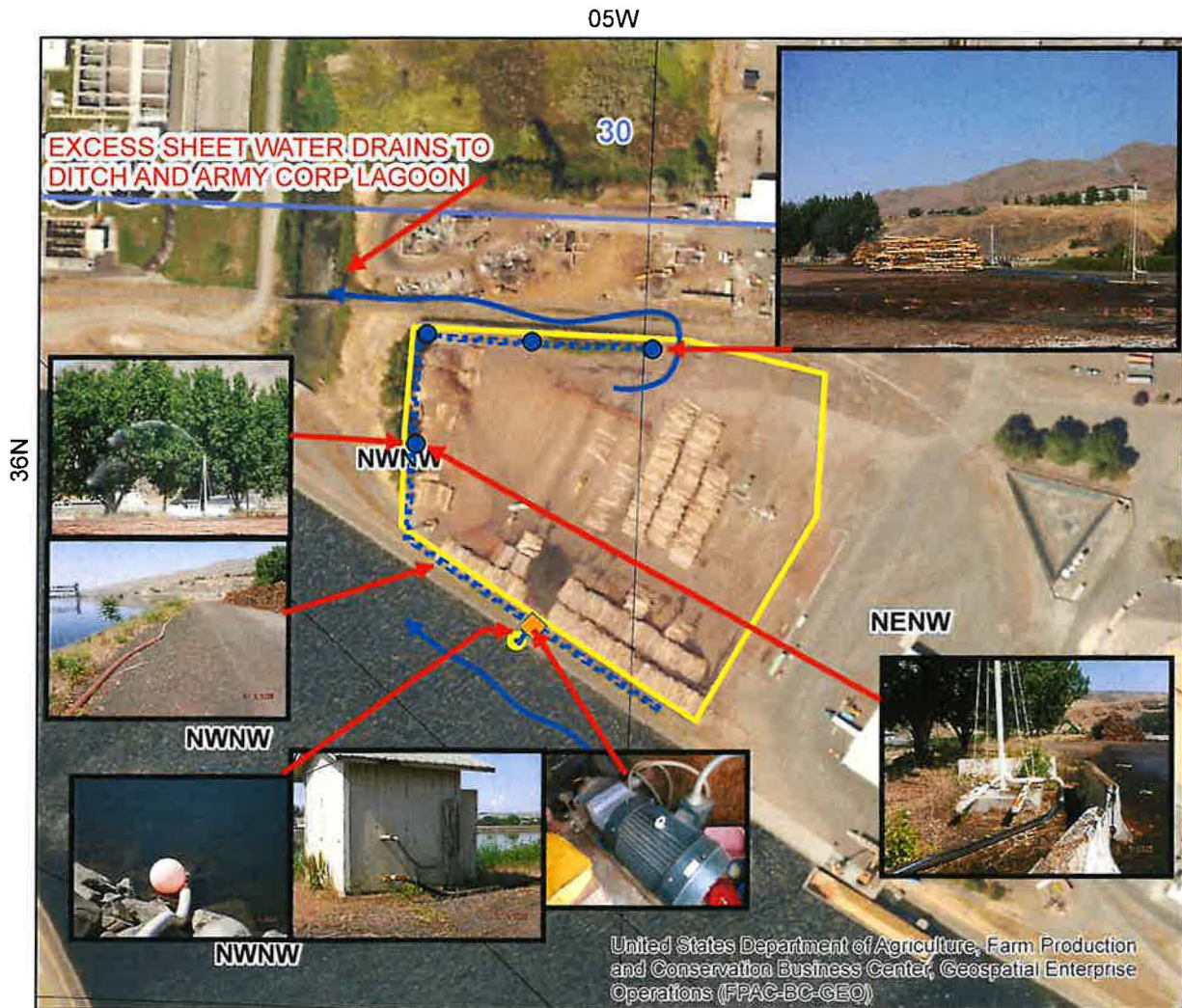
I. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's Name  Date 11/25/2025

Reviewer Michelle Richman Date 8/10/2026

State of Idaho
Department of Water Resources
Attachment to Field Exam
86-12076

This map depicts the INDUSTRIAL system diagram.



0 0.035 0.07 0.14 Miles

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



Bates, Luke

From: Luke Machtolf <lukemachtolf@altafp.com>
Sent: Thursday, January 9, 2025 9:52 AM
To: Bates, Luke
Subject: RE: IDWR Permit 86-12076
Attachments: IDWR Consumption Report 010925.pdf

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Hi Luke,

Thank you for contacting me and providing the information.

I appreciate you asking for the most up to date numbers on the consumption report. I submitted this before we were done watering for the season, so I have attached a revised and final report.

Here are some snapshots of the invoices I have for the pump motor and pump head:

BILL TO		SHIP TO	
Alta Forest Products LLC 810 NW Alta Way Chehalis, WA 98532		Alta Forest Products LLC Port of Lewiston 1626 6th Ave North Lewiston, ID 83501	
Reference:	MVS-Luke Machtolf	Employee:	Mel Sommers
Terms:	Net 30 Days	Shipping Method:	Best Way
Item Number	Description	Quantity	
Rotating Assembly - Includes Impeller and Wear Ring			
IDF-PART	7000546644, ROTELM 3X4X10C 410 (7000546644) RH Rotation 8.8125" 3600 RPM	1.00	
AR.FRT-IN	FREIGHT-IN TAXABLE	1.00	
Please send invoice to Luke Machtolf: lukemachtolf@altafp.com			
Ordered on PO 70531			
Web order number: 1421785			

 **Electric Inc.** St. Maries, ID 83861

info@stillwater-e.com
208-245-3871

Idaho Registered Contractor:
RCE-30405
Idaho Public Works Contractor:
009040-C-4

Bill To
ALTA Forest Products
Luke Machtolf
810 Northwest ALTA Way
Chehalis, WA 98532

Date	
6/14/2021	
Due Date	
6/14/2021	
P.O. No.	
Project	

Qty	Description
	PROVIDE REPLACEMENT MOTOR FOR LEWISTON LOG LOADING AREA DECK WATERING PUMP; - ASSISTANCE REQUESTED VIA JACK BUELL TRUCKING - MOTOR LOCATED AND SHIPPED INTO SPOKANE FOR PICKUP
1	TOSHIBA PREMIUM EFFICIENCY MOTOR 50-75HP-36-TEFC 36STS FRAME 3550RPM

I look forward to meeting with you in the spring for the site visit. Please contact me with any other questions. Thanks,

Luke Machtolf, CF
Alta Forest Products
509-867-6313

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Tuesday, January 7, 2025 2:01 PM
To: Luke Machtolf <lukemachtolf@altafp.com>
Subject: IDWR Permit 86-12076

Mr. Luke Machtolf – CF, Alta Forest Products LLC,
Good afternoon. I work with IDWR at the Northern Regional Office here in CDA and am preparing documents toward facilitating a beneficial use field exam for Permit 86-12076.

I won't schedule the site visit until after pumping activities begin in May, but wanted to reach out to let you know 1) we haven't forgotten about you and 2) request some additional information.

I note from the PDF attached to a prior email I received from our State Office in September the annual consumption report you attached to the statement of completion.

I'm requesting additional information if accessible:

- A copy of the consumption report through the entirety of 2024; even though September and October were technically outside the development window for the Permit, if it is the largest consumptive use year on file I will seek license recommendations with it. Currently I note that year 2023 has the largest annual volume out of the report, but having the entire year will illustrate the complete picture of your operations during 2020 – 2024.
- If you have the invoice from the pump company who installed your system, if applicable, I would take any pump/motor manufacturer specifications. I recommend blacking out any price or other sensitive information from the invoice documents. If you don't have these that is ok, I can follow-up after the exam to capture pump spec info.

Once you start actively pumping, I will schedule time that works for you to meet on site and capture flow measurements and photographs of active beneficial use of water. This exam will be straight forward and take an hour or two at most.

Thank you for your consideration of the requested information and I look forward to working with you in the near future.

Best regards,

Bates, Luke
Idaho Department of Water Resources
Water Resource Agent
Northern

(208) 762-2817 Work
Luke.Bates@idwr.idaho.gov
7600 Mineral Drive
Suite 100
Coeur d'Alene, Idaho 83815-7763

Annual Volume Reporting 86-12076

ALTA FOREST PRODUCTS, LLC	PERMIT #:	TP 86-12076
Water Source: Clearwater River	Site Location:	Port of Lewiston

YEAR	Date	Beginning Reading	End Reading	Date	Time Period Usage (gallons x 1,000)	
2020	5-May			30-May	805.65	estimated at 50%
2020	1-Jun			14-Jun	805.65	estimated at 50% of Jun/Jul
2020	15-Jun	0	1611.3	15-Jul	1,611.30	flow meter was faulty/broken
2020	15-Jul	1611.3	2774.3	31-Jul	1,163.00	flow meter was faulty/broken
2020	1-Aug	2774.3	4998.7	31-Aug	2,224.40	Flow meter replaced
2020	1-Sep	4998.7	7064.9	29-Sep	2,066.20	
2020	30-Sep	7064.9	8468.7	21-Oct	1,403.80	
2021	11-May	8468.7	9193	31-May	724.30	
2021	1-Jun	9193	11645.4	30-Jun	2,452.40	
2021	1-Jul	11645.4	14845.8	31-Jul	3,200.40	
2021	1-Aug	14845.8	18452.3	30-Aug	3,606.50	
2021	1-Sep	18452.3	21737.8	1-Oct	3,285.50	
2021	1-Oct	21737.8	22411.6	15-Oct	673.80	
2022	18-May	22411.6	23863.5	6-Jun	1,451.90	
2022	7-Jun	23863.5	26240	7-Jul	2,376.50	
2022	8-Jul	26240	28965	1-Aug	2,725.00	
2022	2-Aug	28965	31785.2	31-Aug	2,820.20	
2022	1-Sep	31785.2	34585.3	30-Sep	2,800.10	
2022	1-Oct	34585.3	35828.7	25-Oct	1,243.40	
START • 2023	10-May	35828.7	43188	29-Jun	7,359.30	May and June
2023	30-Jun	43188	47051.9	31-Jul	3,863.90	
2023	1-Aug	47051.9	51152.9	31-Aug	4,101.00	
2023	1-Sep	51152.9	55186.2	30-Sep	4,033.30	
END. • 2023	1-Oct	55186.2	56205.9	31-Oct	1,019.70	
2024	10-May	56205.9	57283.4	2-Jun	1,077.50	
2024	3-Jun	57283.4	58947.4	30-Jun	1,664.00	
2024	1-Jul	58947.4	60789.6	31-Jul	1,842.20	
2024	1-Aug	60789.6	62673.6	29-Aug	1,884.00	
2024	30-Aug	62673.6	64958.5	17-Oct	2,284.90	

Total to Date: 66,569.80

$$56205.9 [31-OCT-2023] - 35828.7 [10-MAY-2023]$$

$$20377.2 \text{ gal} \times 1000 \text{ gal [factor]} = 20377200.0 \text{ gallons}$$

$$\div 325,850 \text{ gal per acre feet}$$

62.5 af for FY 2023

86-12076 -Applicant supplied diverting pump information

BILL TO	SHIP TO
Alta Forest Products LLC 810 NW Alta Way Chehalis, WA 98532	Alta Forest Products LLC Port of Lewiston 1626 6th Ave North Lewiston, ID 83501

Reference:	MVS-Luke Machtolf	Employee:	Mel Sommers
Terms:	Net 30 Days	Shipping Method:	Best Way
Item Number	Description	Quantity	

Rotating Assembly - Includes Impeller and Wear Ring

IDF-PART	7000546644, ROTELM 3X4X10C 410 (7000546644) RH Rotation 8.8125" 3600 RPM	1.00
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AR.FRT-IN	FREIGHT-IN TAXABLE	1.00
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Please send invoice to Luke Machtolf: lukemachtolf@altafp.com

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info@stillwater-e.com

208-245-3871

Idaho Registered Contractor:
RCE-30405
Idaho Public Works Contractor:
009040-C-4

Bill To ALTA Forest Products Luke Machtolf 810 Northwest ALTA Way Chehalis, WA 98532
--

Date	
6/14/2021	
Due Date	
6/14/2021	
P.O. No.	
Project	

Qty	Description
	PROVIDE REPLACEMENT MOTOR FOR LEWISTON LOG LOADING AREA DECK WATERING PUMP: - ASSISTANCE REQUESTED VIA JACK BUELL TRUCKING - MOTOR LOCATED AND SHIPPED INTO SPOKANE FOR PICKUP
1	TOSHIBA PREMIUM EFFICIENCY MOTOR SD-75HP-36-TEFC 365TS FRAME 3550RPM

Toshiba pump motor – SD-**75HP**-36-TEFC 365TS Frame

ALTA FOREST PRODUCTS, LLC	PERMIT #: TP 86-12076
Water Source: Clearwater River	Site Location: Port of Lewiston

IDWR STAFF Volumetric Calculations applied for Licensing Purposes.

YEAR	Date	Beginning Reading	End Reading	Date	Time Period Usage (gallons x 1,000)	
2020	5-May			30-May	805.65	estimated at 50%
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2023	1-Oct	55186.2	56205.9	31-Oct	1,019.70	
2024	10-May	56205.9	57283.4	2-Jun	1,077.50	
2024	3-Jun	57283.4	58947.4	30-Jun	1,664.00	
2024	1-Jul	58947.4	60789.6	31-Jul	1,842.20	
2024	1-Aug	60789.6	62673.6	29-Aug	1,884.00	
2024	30-Aug	62673.6	64958.5	17-Oct	2,284.90	

Total to Date: 66,569.80

$$\underline{2020}: 8468.7 \text{ gal} \times (1,000 \text{ gal factor}) = 8,468,700 \text{ gallons}$$

$$\underline{2021}: [22411.6 - 8468.7] \times (1,000 \text{ gal factor}) = 13,942,900 \text{ gallons}$$

$$\underline{2022}: [35828.7 - 22411.6] \times (1,000 \text{ gal factor}) = 13,417,100 \text{ gallons}$$

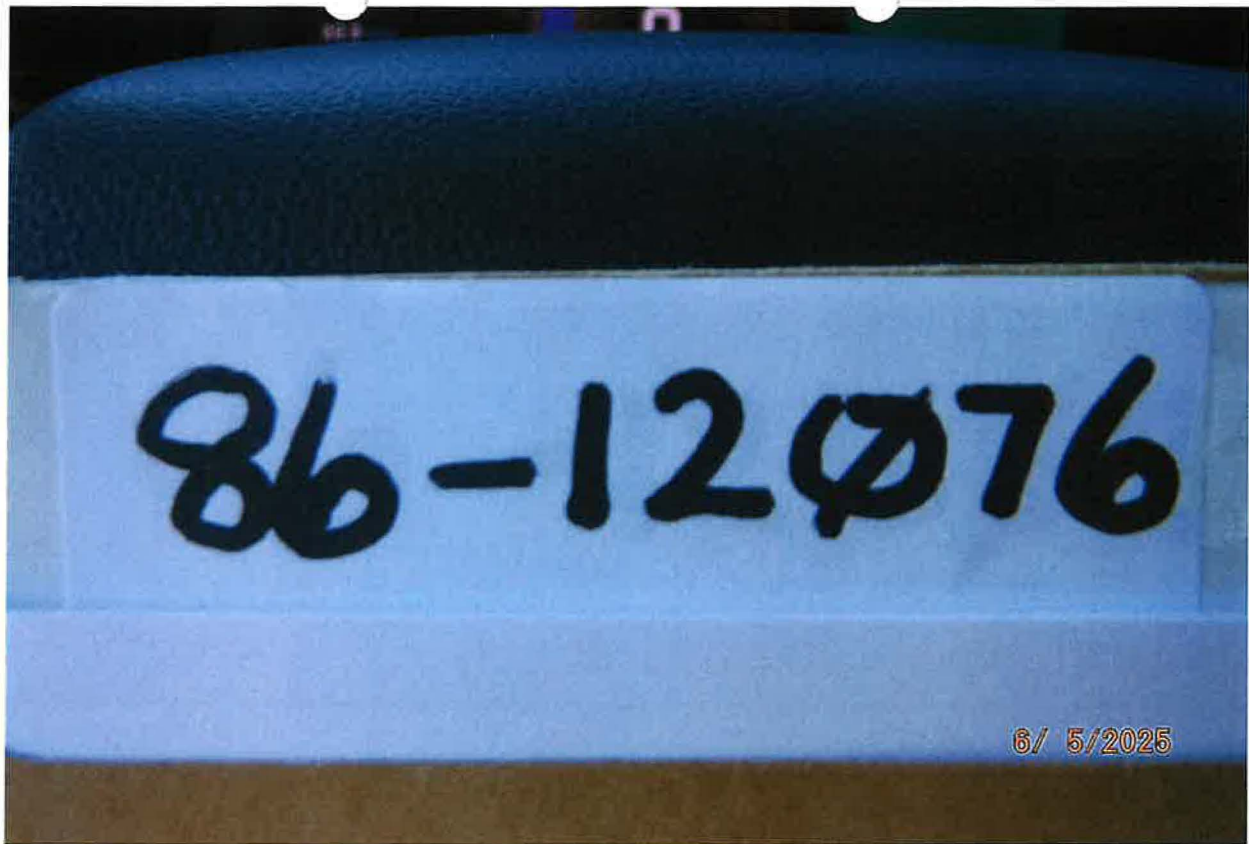
$$\underline{2023}: [56205.9 - 35828.7] \times (1,000 \text{ gal}) =$$

$$20,377,200 \text{ gallons} / 325,850 \text{ gallons per acre-foot} =$$

62.5 af considering Department Rounding Standards

$$\underline{2024}: [64958.5 - 56205.9] \times (1,000 \text{ gal}) =$$

$$8,752.6 \text{ gallons}$$



BENEFICIAL USE FIELD EXAM DATE 6/5/2025



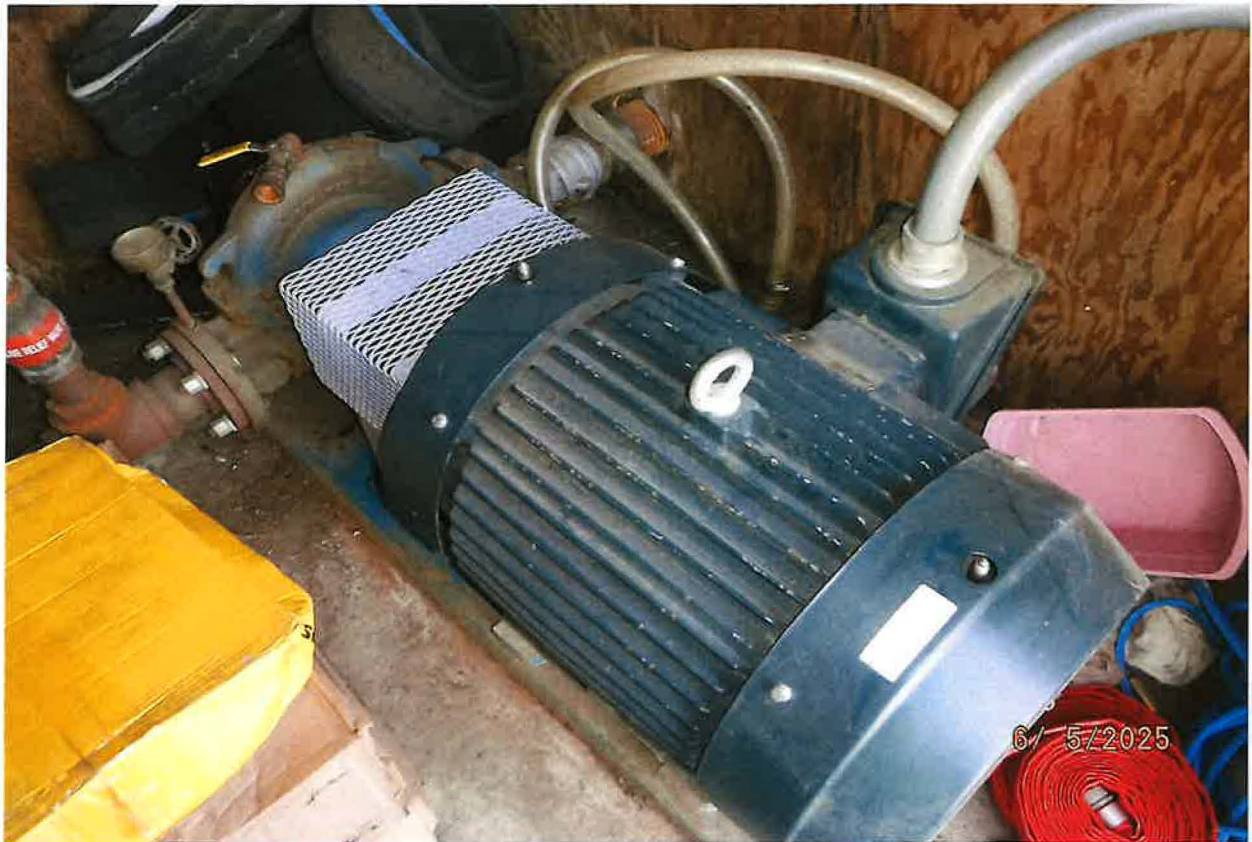
POD – FLEXIBLE INTAKE PIPE WITH 3/32ND INCH SCREEN IN THE CLEARWATER RIVER



POD – PUMP STATION

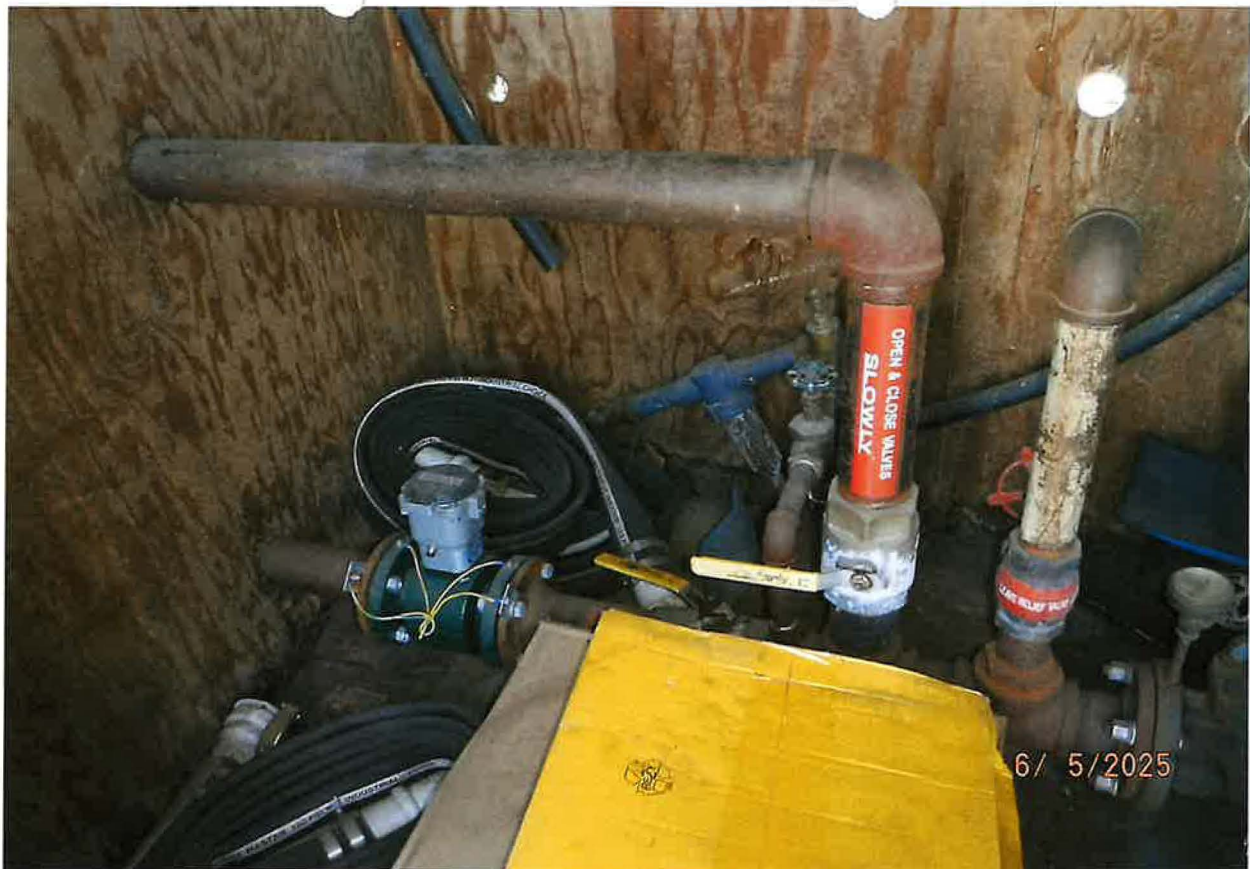


DIVERTING WORKS – INTAKE PIPELINE SUCTION PUMP END (INSIDE PUMP STATION)



DIVERTING WORKS – 75 HP TOSHIBA MOTOR SD-75H-36-TEFC WITH 36TS FRAME & CENTRIFUGAL PUMP END





CONVEYANCE SYSTEM – MAIN DISCHARGE PIPELINE ROUTES THROUGH A FLANGE MOUNTED VELOCITY STYLE IM SERIES FLOW METER BEFORE DISTRIBUTION BY 4-INCH FLEXIBLE PIPELINE TO SPRINKLER TOWERS



GROWSMART FLOWMETER



IM SERES FLOWMETER – MODEL IM3000, S/N GT19030179 WITH MFD 3/2019



FLOW METER DIGITAL READOUT – 311 GPM ILLUSTRATED AS SYSTEM WAS STILL STABILIZING



INDUSTRIAL WATER SYSTEM ELECTRICAL TREE



PUMP STATION WITH DISTRIBUTION SIDE HOSE CONNECTIONS – LOWER 4-INCH FLEXIBLE PIPELINE TO 4EA TOWER BIG GUN SPRINKLERS; UPPER FLEXIBLE 1.5 INCH FIRE HOSE CONNECTION WHICH ROUTES TO INDIVIDUAL SMALLER BRASS IMPACT SPRINKLERS



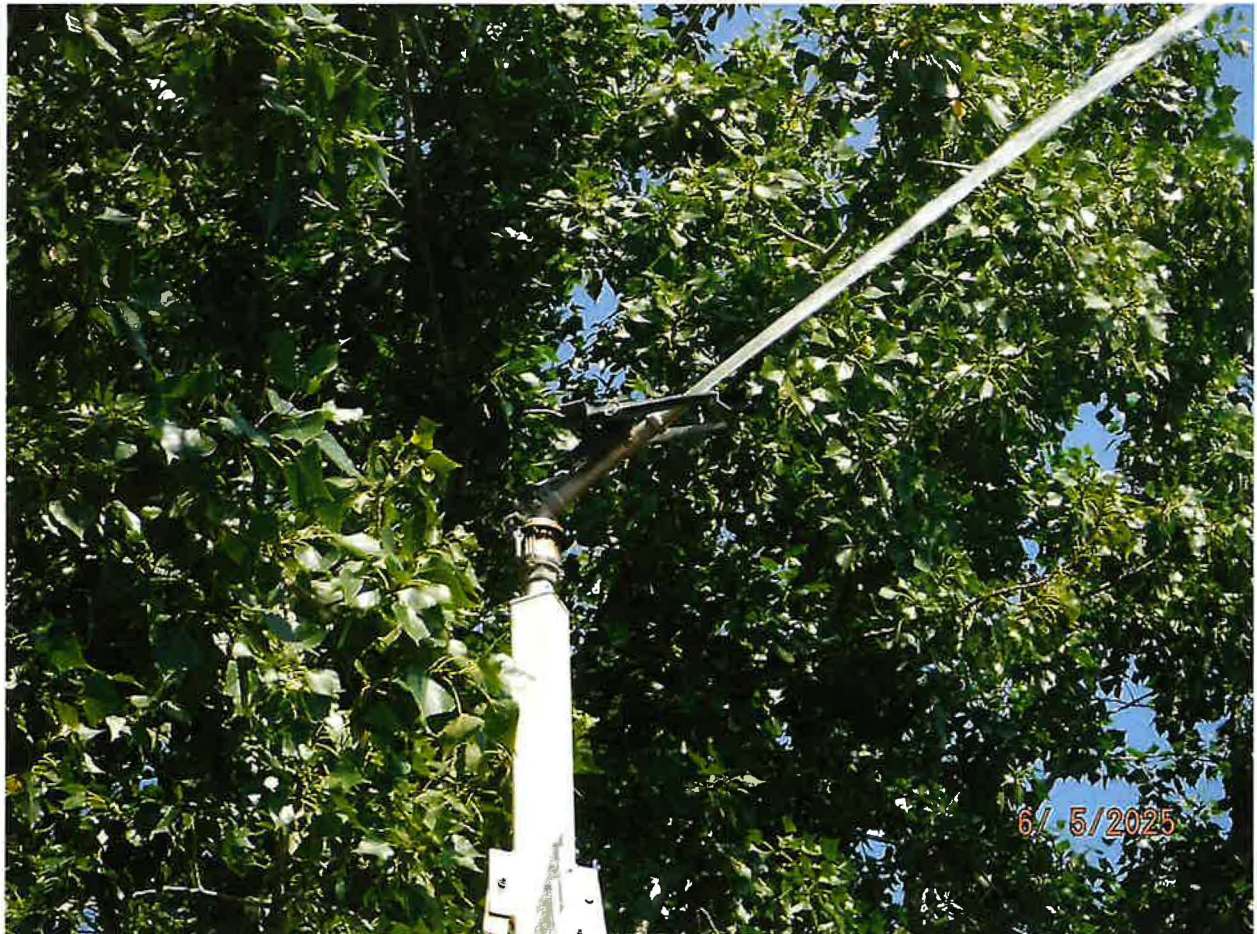
WATER CONVEYANCE SYSTEM – 4 INCH FLEXIBLE PIPELINE TO LOG YARD
INDUSTRIAL WATERING



INDUSTRIAL POU – 1 OF 4 RISER PIPES TO BIG GUN SPRINKLERS



INDUSTRIAL POU – LOG DECK WATERING BY TOWER BIG GUN SPRINKLERS





INDUSTRIAL POU – LOG DECK WATERING



INDUSTRIAL POU – LOG DECK WATERING
EXCESS WATER SHEET RUNS NORTH ACROSS YARD ENTERING A DRAIN DITCH
WHICH ROUTES TO AN ARMY CORP SETTLING LAGOON ON WESTERN SIDE OF
POU