

JUL 18 2025
DEPARTMENT OF
WATER RESOURCES

STATE OF IDAHO DEPARTMENT
OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee \$	50.00
Receipt No.	C122186
Received By	BM
Date Received	7-18-25

The Idaho Department of Water Resources (Department) considers this form a statement that the permit holder(s) applied water to beneficial use and completed development of a water right to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner (CWRE).** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, complete a Notice of Change in Water Right Ownership form. If you wish to relinquish your permit because you have not established the authorized water use and are not applying for an extension, please notify the Department in writing.

1. Permit No. **96-16650** Name of Permit Holder(s) **Douglas Staker**

Telephone No. **509-995-5076** Email **stake@carbonquest.com**

Mailing Address **417 Lakeview Blvd** City **Sandpoint** State ID _____ Zip **83864**

2. Source of Water **Lake Pend Oreille** If Ground Water (well), Date Drilled mo. ____ / yr. ____

Drilling Permit/Tag No. _____ Drilling Company's Name _____

3. Extent of use(s) completed **as authorized by the water right permit:**

Domestic (No. households) _____ Irrigation (No acres) **0.1** Stockwater (No and stock type) _____

Other Use is for **lawn irrigation**

4. Total diversion rate or volume (storage only) for which proof is submitted **0.01** cfs OR **af**

If the total developed water use is 5 acres of irrigation or less, is stockwater storage of 14.6 acre-feet or less, or has a diversion rate of less than 0.24 cfs, attach a map of the place of use and point of diversion and photographs showing beneficial use.

5. Describe the diversion and delivery system from the water source to the use (pump, lift, irrigation method, etc.)

¾ Hp Submersible Pump support 28 ft. of Head and 300 ft. of 1.5 HDPE pipe for sprinkler systems have circuits that require 4 gpm.
Static Head- 12.1 psi – Friction loss- 0.6 psi. is well within the range of a ¾ hp pump at 40 to 60 psi.

6. Permit condition compliance. Refer to the permit approval conditions and check all the items required, then check "Yes" or "No" to indicate whether the required items were established, submitted, and/or installed:

Required? Yes No (If "Yes", attach required data, evidence of compliance, or evidence of installation)

- | | | |
|--------------------------|-------------------------------------|---|
| ☐ | ☒ | Ground water level data, pumping information, or other diversion data |
| ☐ | ☒ | Mitigation plan |
| ☐ | ☒ | Lockable controlling works |
| ☐ | ☒ | Measuring device |
| ☐ | ☒ | Fish screen- see attached NMFS description |
| ☐ | ☒ | Other requirements of the water right permit _____ |
| ☐ | ☒ | Reasonably Anticipated Future Needs ("RAF") Municipal use _____ |

IF RAFN Municipal use, additional increment of beneficial use developed? Yes (attach CWRE report) ☐

7. Fee Enclosed \$ **50** or ☐ CWRE field report attached or ☐ No fee required

See fee schedule on page 3 of the instructions. Proof statements filed without an appropriate fee are incomplete.

8. Person to contact to accompany a Department representative during the field examination of the water system:

Name: **Doug Staker** Telephone No. **509 995 5076** Email **stake@carbonquest.com**

Mailing Address **417 Lakeview Blvd.** City **Sandpoint** State ID _____ Zip **83864**

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

SIGNATURE OF PERMIT HOLDER•

Doug Staker
PRINTED NAME AND TITLE

7-6-2025
DATE

• Attach power of attorney if completing on behalf of permit holder.

MAR 18 2025

417 Lakeview, Sandpoint, ID 83864



417 Lakeview, Sandpoint, ID 83864

Adjacent Kovalchuk Property

Parcel		▼	📄	✕
PIN	RPS070300002A0A			
Owner1	Kovalchuk, Kenneth E & Rebecca			
Owner2				
Property Class Description	541-Resid improv on cat 20			
Tax Code Area	10000			
Last Assessed Value	2831016			
Acres	0.397			
Legal Description	22-57N-2W PHALON ADD REPLAT LOT 2A CPWRS			

Adjacent Somerville Property

Parcel		▼	📄	✕
PIN	RPS3604000002AA			
Owner1	Ses 299, Llc - 89.925% Int			
Owner2	Ses 299-A, Llc - 10.075% Int			
Property Class Description	541-Resid improv on cat 20			
Tax Code Area	10000			
Last Assessed Value	2552864			
Acres	0.887			
Legal Description	22-57N-2W PUCCI'S ADD LOT 2 TAX 125 LESS PLAT			

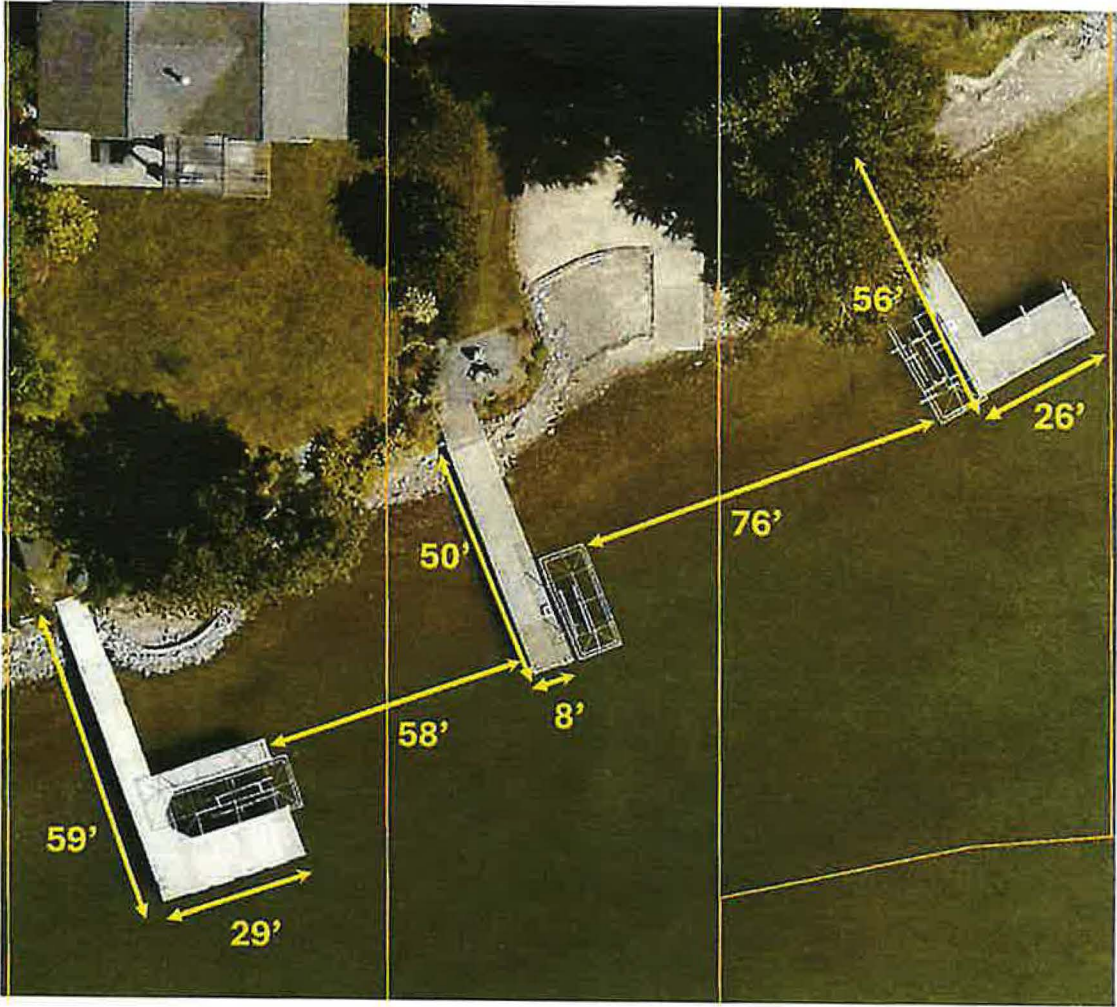


796520594

417 Lakeview, Sandpoint, ID 83864

Adjacent
Kovalchuk Property

Parcel	
PIN	RPS070300002A0A
Owner1	Kovalchuk Kenneth E & Rebecca
Owner2	
Property Class Description	541-Resid Improv on cat 20
Tax Code Area	10000
Last Assessed Value	2831016
Acres	0.397
Legal Description	22-57N-2W PHALON ADD REPLAT LOT 2A CPWR5

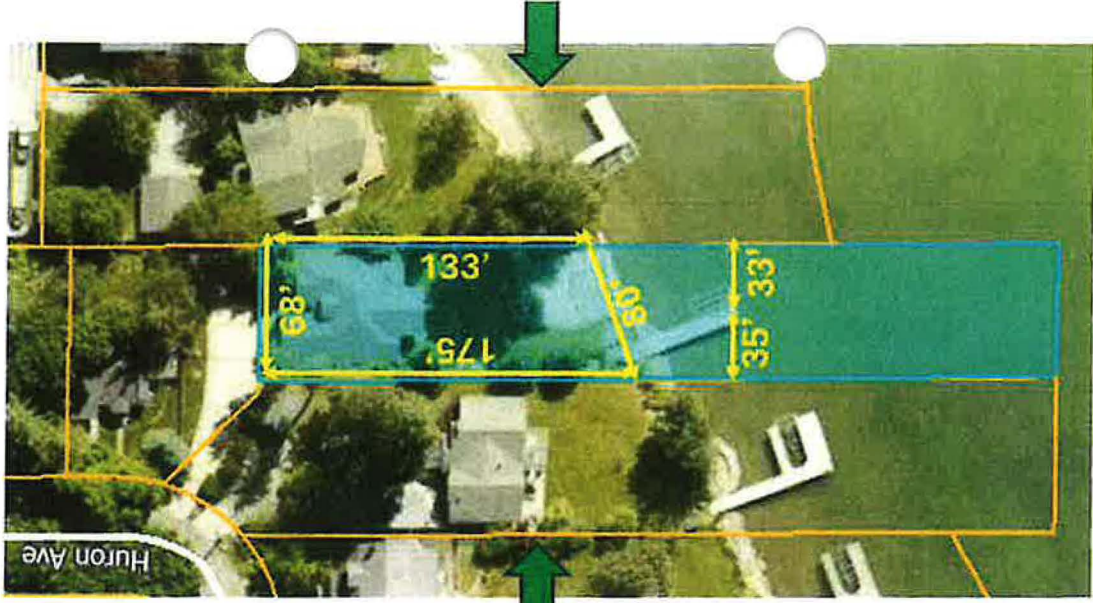


Adjacent
Somerville Property

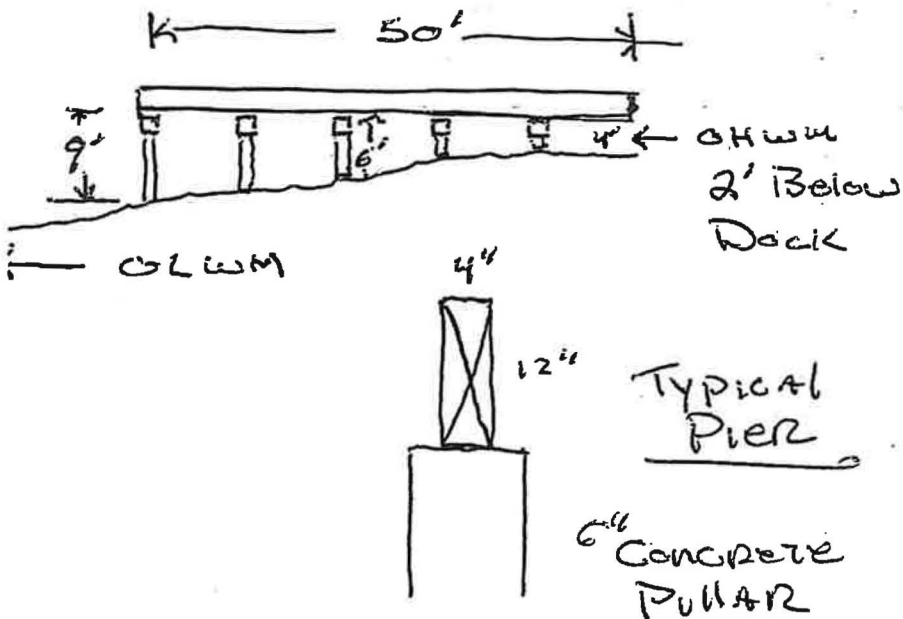
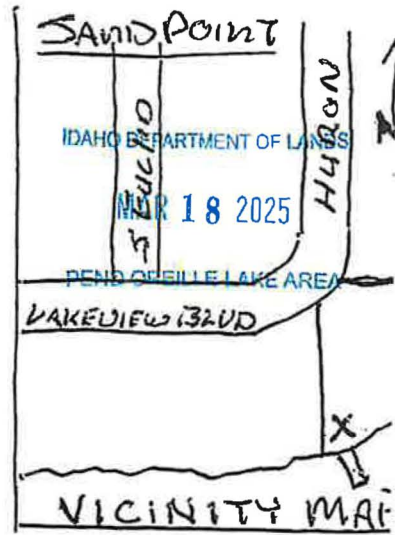
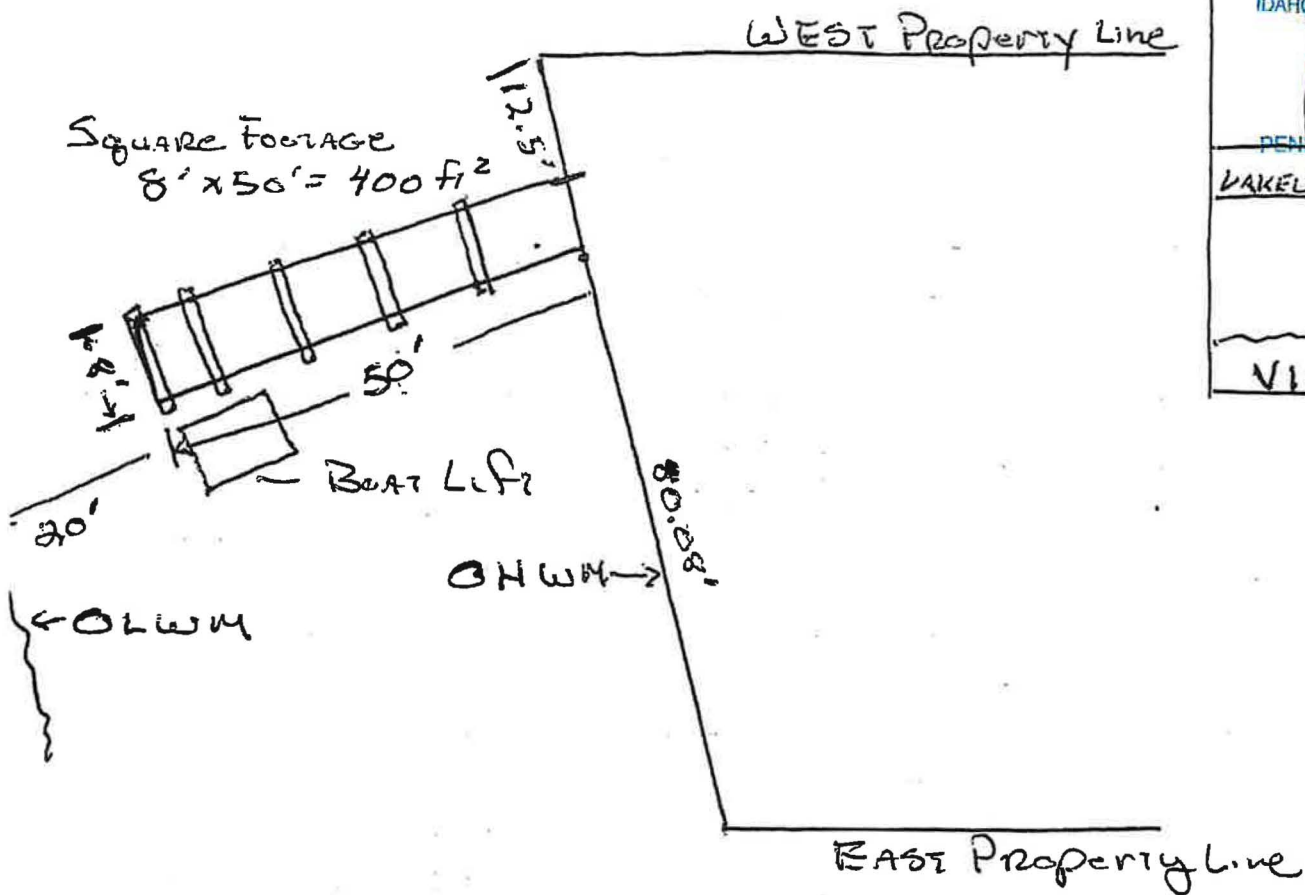
Parcel	
PIN	RPS360400002AA
Owner1	Ses 299, Lic - 89 925% Int
Owner2	Ses 299 A, Lic - 10 075% Int
Property Class Description	541 Resid Improv on cat 20
Tax Code Area	10000
Last Assessed Value	2552864
Acres	0.887
Legal Description	22-57N-2W PUCCI'S ADD LOT 2 TAX 125 LESS PLAT

DEPT OF LANDS
MAR 25 2025

417 Lakeview, Sandpoint, ID 83864



Scale 1" = 20'



~~LAKE~~ PEND OREILLE R.
SECTION 22
Township 5T
North Range 2 West
Boise Meridian
City of SANDPOINT
Banner County, ID

SEMENTS PER TITLE REPORT

Based on the National Marine Fisheries Service's **Juvenile Fish Screen Criteria for Pump Intakes** published May 9, 1996, the following is the analysis of appropriate screen size.

Pump Intake Screen Flow Criteria (From NMFS Pump Document)

The **minimum effective screen area** in square feet for an **active** pump intake screen is calculated by dividing the maximum flow rate in cubic feet per second (CFS) by an approach velocity of **0.4 feet per second (FPS)**. The **minimum effective screen area** in square feet for a **passive** pump intake screen is calculated by dividing the maximum flow rate in CFS by an approach velocity of **0.2 FPS**. Certain site conditions may allow for a waiver of the 0.2 FPS approach velocity criteria and allow a passive screen to be installed using 0.4 FPS as design criteria. These cases will be considered on a site-by-site basis by the fisheries agencies.

If fry-sized salmonids (i.e. less than 60 millimeter fork length) are not ever present at the site and larger juvenile salmonids are present (as determined by agency biologists), approach velocity shall not exceed 0.8 FPS for active pump intake screens, or 0.4 FPS for passive pump intake screens. The allowable flow should be distributed to achieve uniform approach velocity (plus or minus 10%) over the entire screen area. Additional screen area or flow baffling may be required to account for designs with non-uniform approach velocity.

The water right for our property's Irrigation system is 0.01 CFS. There is no current in our part of the lake, so the passive guidelines are applied. Based on the NMFS guidelines:

Existing Water Right 0.01 CFS (ft³/s)

Minimum Active Screen Area for Passive Pump Intake (ft²)= Max. Flow Rate/0.2 FPS(ft/s)

Minimum Active Screen Area = 0.01 ft³/s / 0.2 ft/s = 0.02 ft²



Right cylinder

Solve for surface area =

$$A \approx 3.32$$

r Radius 0.167

h Height 3

Solution

$$A = 2\pi rh + 2\pi r^2 = 2 \cdot \pi \cdot 0.17 \cdot 3 + 2 \cdot \pi \cdot 0.17^2 \approx 3.32311$$



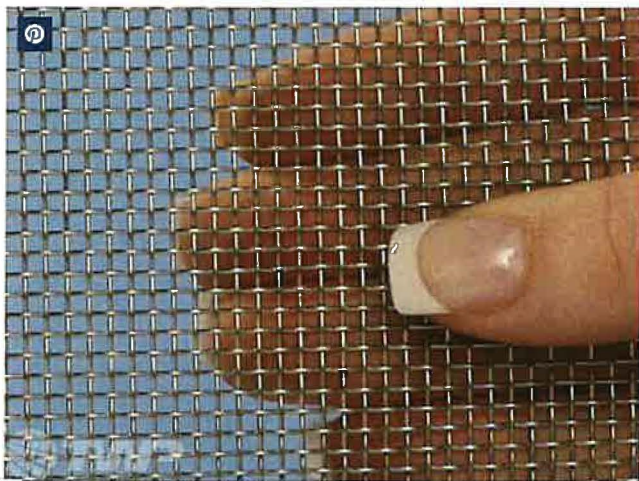
Typical Pump Style

The pump is housed in a 4" PVC housing with slits for intake that are in the length of the pipe. An appropriate stainless-steel mesh with the NMFS guidelines applied will be wrapped around the Pump housing. A cylindrical intake mesh that is 4 inches in diameter and 3 feet long produces an area that is 3.32 ft²

Pump Intake Screen Mesh Material (From NMFS Pump Document)

Screen mesh openings shall not exceed **3/32 inch** (2.38 mm) for woven wire or perforated plate screens, or 0.0689 inch (**1.75 mm**) for profile wire screens, with a minimum **27% open area**. If fry-sized salmonids are never present at the site (by determination of agency biologists) screen mesh openings shall not exceed **1/4 inch** (6.35 mm) for woven wire, perforated plate screens, or profile wire screens, with a minimum of **40% open area**.

Screen mesh material and support structure shall work in tandem to be sufficiently durable to withstand the rigors of the installation site. No gaps greater than 3/32 inch shall exist in any type screen mesh or at points of mesh attachment. Special mesh materials that inhibit aquatic growth may be required at some sites.



#10 Mesh T304 Stainless 0.25" wire diameter:

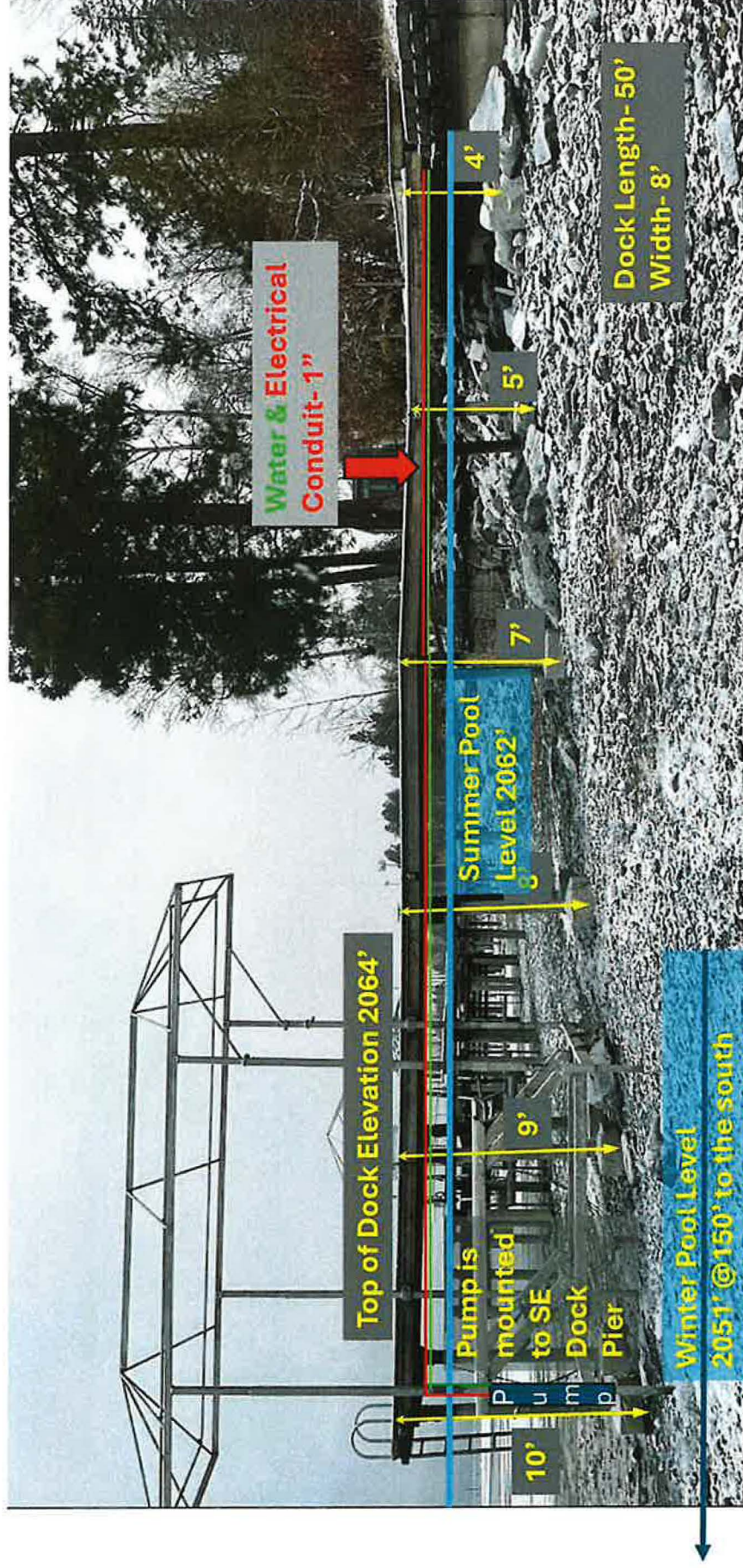
Specs	U.S.
MESH SIZE	10 per in
WIRE DIAMETER	0.0250 in
OPENING	0.0750 in
OPENING MICRONS	1905
OPENING %	56 %
OVERALL THICKNESS	0.0500 in
WEIGHT/SQUARE FOOT	0.4200 lb

Maximum Allowed Opening - 3/32" = 0.09375. # 10 Mesh Opening= 0.0750

Minimum Open Area Must be greater than 40%. #10 Mesh Opening %= 56%

Mesh Area Square footage = 3.32 ft² x 56%= 1.8592 ft² which exceeds the NMFS guideline of 0.02 ft² which exceeds the required amount of square footage by a factor of 92.96.

417 Lakeview, Sandpoint, ID 83864



Pump and Conduit Installation



Encroachment # Installed

