

6/2013

IN-OFFICE BENEFICIAL USE EXAM REPORT

Permit No. 77-7161

Prepared by Rick Collingwood

Date 1-23-14

	Same as permit	Different than permit
Owner Name	☒	☐ _____
Owner Address	☒	☐ _____
Source	☒	☐ _____
Tributary	☒	☐ _____
POD	☐	☒ <u>NW1/4NW1/4</u>
POU	☒	☐ _____
Beneficial Use(s)	☒	☐ _____

Exam Fee Required for Permitted Rate \$125

Exam Fee Paid \$150

Overlaps ☐ No ☒ Yes, summarize Point of Diversion and Place of Use overlaps with WR 77-10054 and WR Permit 77-14280

Amendment ☐ No ☒ Yes, summarize License amendment due to the incorrect location of the point of diversion - NW1/4NW1/4 Section 32, not SW1/4SW1/4 Section 29.

Technical Confirmation Tools

ArcMap (Bing)



GPS



Taxlot



Photos



Well Log



Diagrams



Other



explain: Canyon Industries, Inc. installation and operation report for the 9 KW Scott Hydro Project.

Conditions/Comments Condition No.12 (01N) - No measuring device installed. The right holder submitted the computations and flow requirements prepared by Canyon Industries, Inc., for the hydropower system. The wheel gate and 8" penstock were designed to meet the design flow requirements for the hydropower system. Condition No. 13 (196) Except for an exposed section of the 8" PVC penstock near the power house, the entire 8" PVC penstock is buried. With a

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little excavation with a shovel, a measuring device could be attached to the exposed pipe upstream of the power house to obtain a flow measurement.

The right holder provided the point of diversion coordinates on the back of the photo. However, the coordinates do not fall within Lemhi Creek. Based on the location of an access road to Lemhi Creek, an assumption was made that the diversion structure in Lemhi Creek is located at or near the terminus of the road at Lemhi Creek.

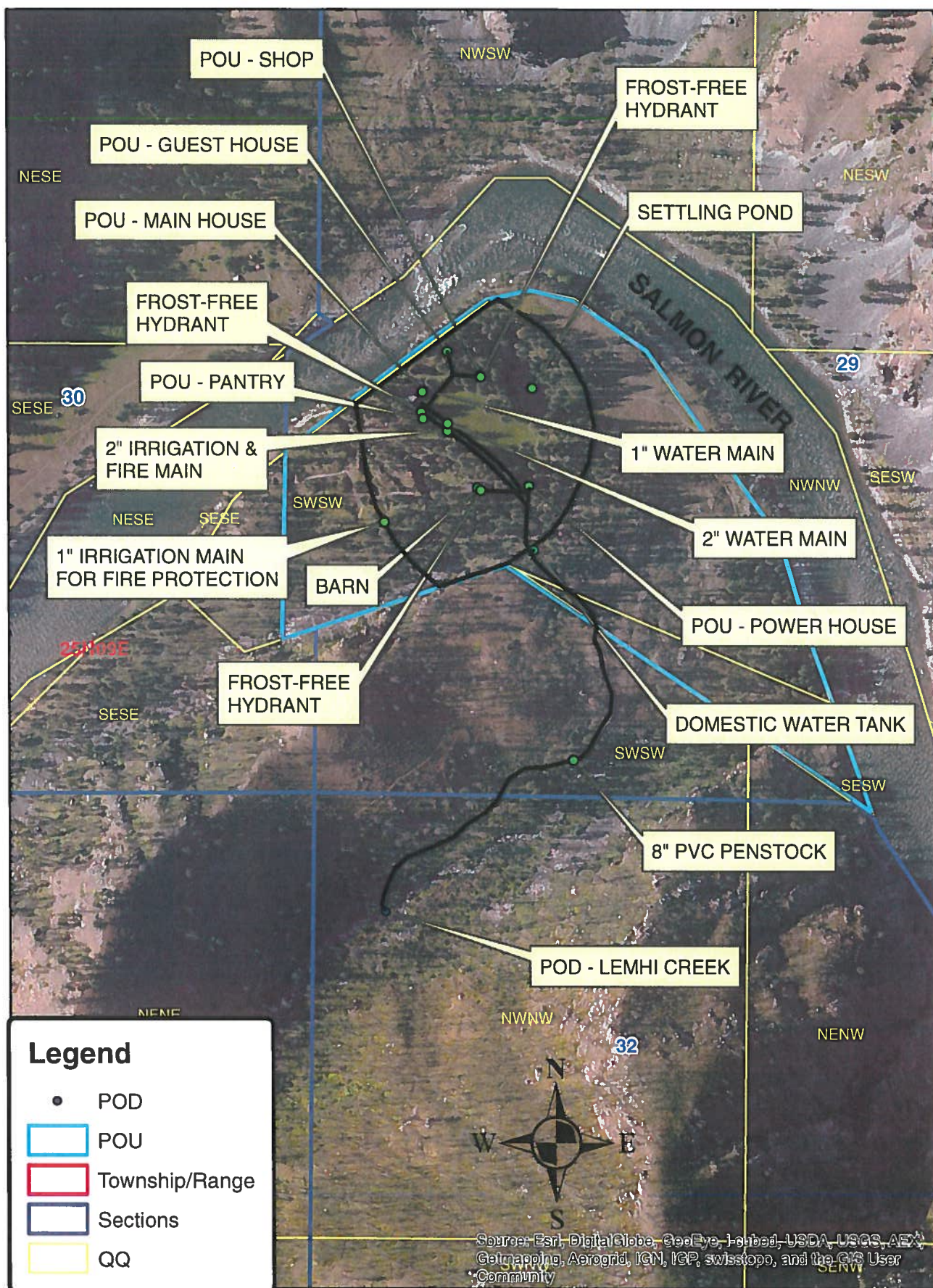
Exam Date Entered ☒

Draft License Created ☒

Shapes Updated ☒

77-7161

ESRI AERIAL PHOTO - 2012



CANYON INDUSTRIES, INC.

SPECIALIZING IN SMALL WATER WHEELS

August 6, 1987

5346 Mosquito Lake Road
DEMING, WASHINGTON 98244
(206) 592-5552 or (206) 592-2235

INSTALLATION AND OPERATION

9 KW HYDROELECTRIC SYSTEM

For

MEYER'S ENGINEERING CO.
Scott Hydro Project (China Bar)
750 Warm Springs Ave.
Boise, ID 83712

Site Data: Head - 123 feet.
Flow - 2 CFS.
Effective - 93 feet @ 2 CFS.

DESCRIPTION:

Turbine: CANYON 1215-2 manganese bronze runner.

Nozzle: (2) fixed interchangeable, using 2" 3000 PSI plugs, with 6" butterfly valves isolating each nozzle. Nozzles bored 1.6" diameter.

Main Bearings: Fafnir RCJC 1 15/16", (2) each.

Deflector Bearings: Fafnir SCJT 1, seal CR9852, (2) each.

Main Seal Assembly: Labyrinth.

Generator: Kato 4P82-0663, serial #94944, 9 KW, 120/240 VAC, 1800 RPM, single phase, 60 cycle.

Drive: Uniroyal HTD 8MM, 112 groove, 11.2" O.D. on turbine, 40 groove, 4.010 O.D. on generator 8MX50M, belt #1760.

Controller: By Sierra Electro Development Co., and Thomson & Howe Energy Systems.

Overspeed Control: Allenair 1½"X8 OS with Allenair 20A4A solenoid valve.

Intake: ASTM 8" flange, standard 150#.

PRE INSTALLATION:

Turbine must be supplied with clean water free of silt, sticks, sand, or other foreign particles. Assure that pipeline intake is first well screened and intake water allowed to settle. This is particularly important on high heads (over 300 feet). Contaminants in high head systems greatly increase wear of runner. Before beginning installation, fill pipeline, check for leaks and pipe movement, then thoroughly flush line to remove all water contaminants and solids. READ following installation and operation instructions, generator instruction manual, and Thomson & Howe controller manual.

2-D1-Relay
15 Amp

\$239⁰⁰

PRODUCT "A"

INSTALLATION AND OPERATION

MANUAL

SERIAL NO. 871

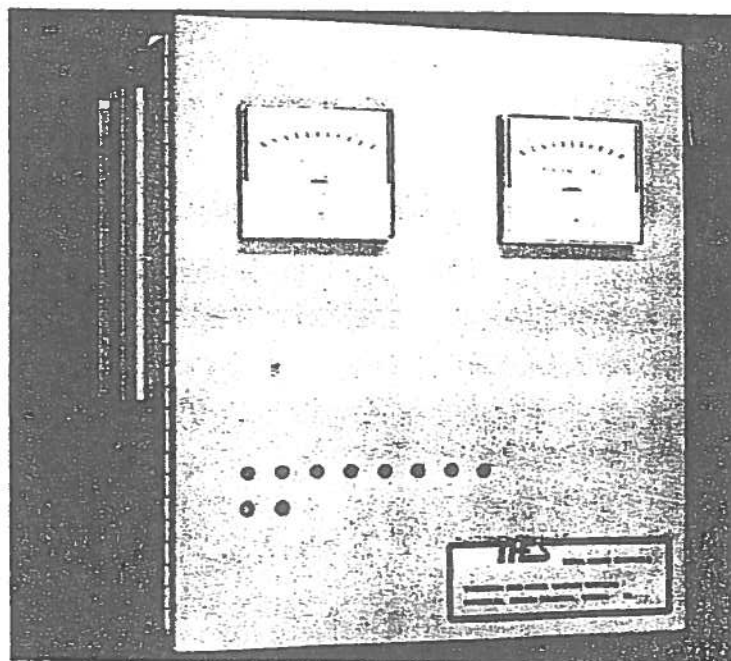
The product "A" load control governor is designed to manage loads and govern frequency for independent small hydro plants.

With external relays, can be used on plants of size 1 KW to 75 KW, 240 volts (60 Hz) or 220 volts (50 Hz) single phase, 208/240 volts (60 Hz) or 380 volts (50 Hz) three phase.

October 1986

Version 4.0

printed in Canada



Authorization ID: SAL36
Contact ID: CAMPBELL, JIM
Expiration Date: 12/31/2014
Use Code: 915

FS-2700-4 (05/03)
OMB 0596-0082

U.S. DEPARTMENT OF AGRICULTURE
Forest Service
SPECIAL USE PERMIT
AUTHORITY:

FEDERAL LAND POLICY AND MGMT ACT, AS AMENDED October 21, 1976

Jim Campbell of P.O. Box 1978, MC CALL, ID 83638 (hereinafter called the Holder) is hereby authorized to use or occupy National Forest System lands, to use subject to the conditions set out below, on the Nez Perce National Forest.

This permit covers .88 acres, and/or 0 miles and is described as: A strip of land 20' wide and approximately 1900' long, SESW Section 29, T. 25 N., R. 9 E., BOISE PRINCIPAL MERIDIAN (20 X 1,900 = 38,000 SQ. FT.) as shown on the location map attached to and made a part of this permit, and is issued for the purpose of:

Transporting water from Lemhi Creek to an existing generation plant on private land at Lemhi Bar to be used for personal use.

The above described or defined area shall be referred to herein as the "permit area".

TERMS AND CONDITIONS

I. AUTHORITY AND GENERAL TERMS OF THE PERMIT

A. Authority. This permit is issued pursuant to the authorities enumerated at Title 36, Code of Federal Regulations, Section 251 Subpart B, as amended. This permit, and the activities or use authorized, shall be subject to the terms and conditions of the Secretary's regulations and any subsequent amendment to them.

B. Authorized Officer. The authorized officer is the Forest Supervisor or a delegated subordinate officer.

C. License. This permit is a license for the use of federally owned land and does not grant any permanent, possessory interest in real property, nor shall this permit constitute a contract for purposes of the Contract Disputes Act of 1978 (41 U.S.C. 611). Loss of the privileges granted by this permit by revocation, termination, or suspension is not compensable to the holder.

D. Amendment. This permit may be amended in whole or in part by the Forest Service when, at the discretion of the authorized officer, such action is deemed necessary or desirable to incorporate new terms, conditions, and stipulations as may be required by law, regulation, land management plans, or other management decisions.

E. Existing Rights. This permit is subject to all valid rights and claims of third parties. The United States is not liable to the holder for the exercise of any such right or claim.

F. Nonexclusive Use and Public Access. Unless expressly provided for in additional terms, use of the permit area is not exclusive. The Forest Service reserves the right to use or allow others to use any part of the permit area, including roads, for any purpose, provided, such use does not materially interfere with the holder's authorized use. A final determination of conflicting uses is reserved to the Forest Service.

G. Forest Service Right of Entry and Inspection. The Forest Service has the right of unrestricted access of the permitted area or facility to ensure compliance with laws, regulations, and ordinances and the terms and conditions of this permit.

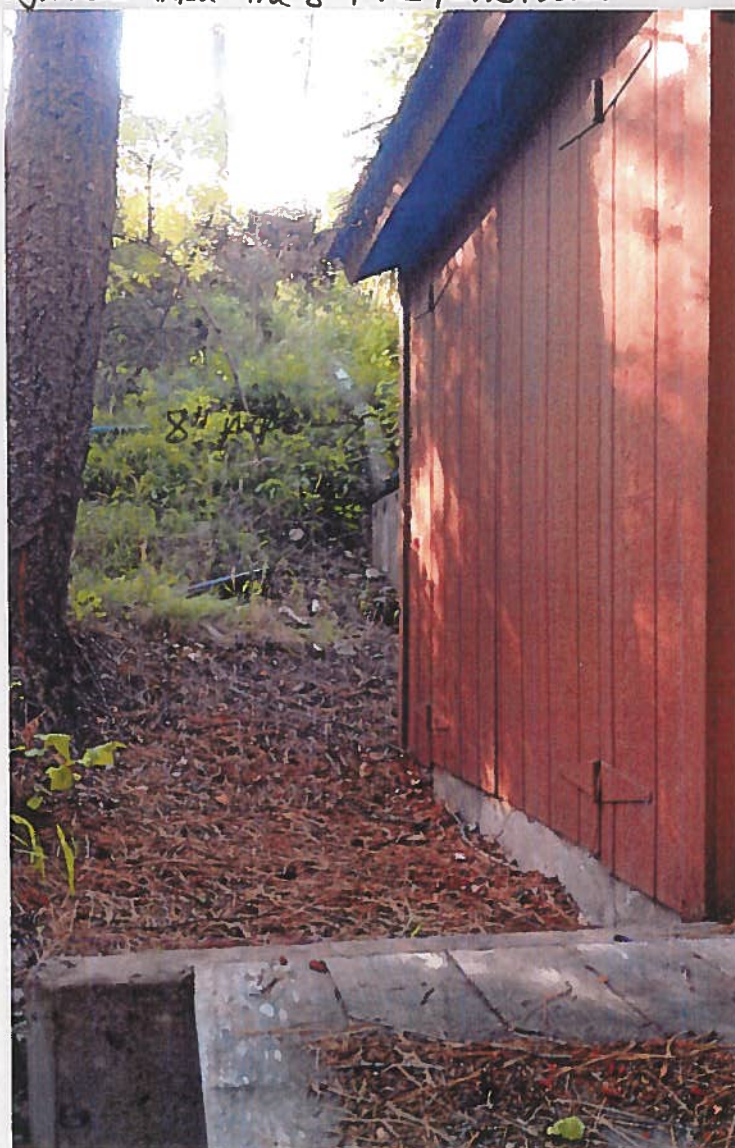
H. Assignability. This permit is not assignable or transferable. If the holder through death, voluntary sale or transfer, enforcement of contract, foreclosure, or other valid legal proceeding ceases to be the owner of the improvements, this permit shall terminate.



Point of Diversion: View northeasterly of the screened intake structure on Lemhi Creek. The wheel gate controls flow to a collection box for conveyance thru the 8" PVC penstock.



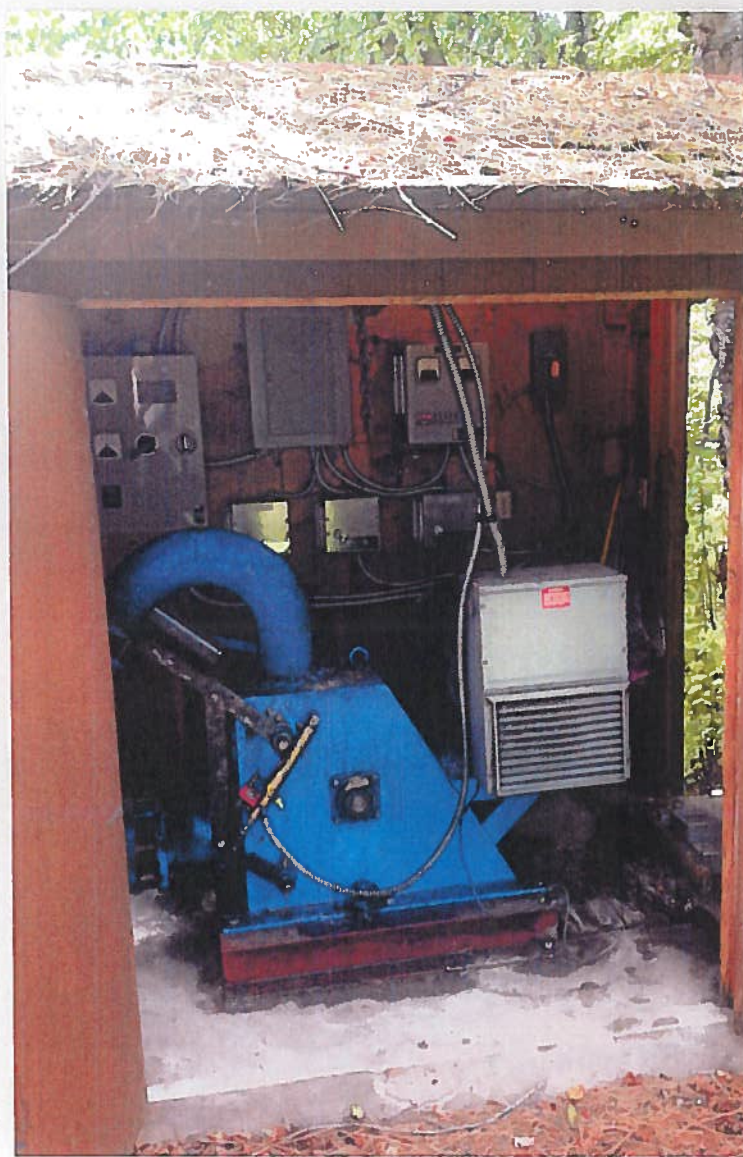
Place of Use: View Easterly of the Power House



Place of Use: View Easterly of the Power House and the 8" PVC



View of the Power House.
concrete Raceway. Water is
discharged to an open ditch
which discharges water to a
settling pond.



View inside the Power House of
the Turbine, generator, and
power and control equipment.



View of the Power House and the ditch which conveys water from the Power House to a settling pond.



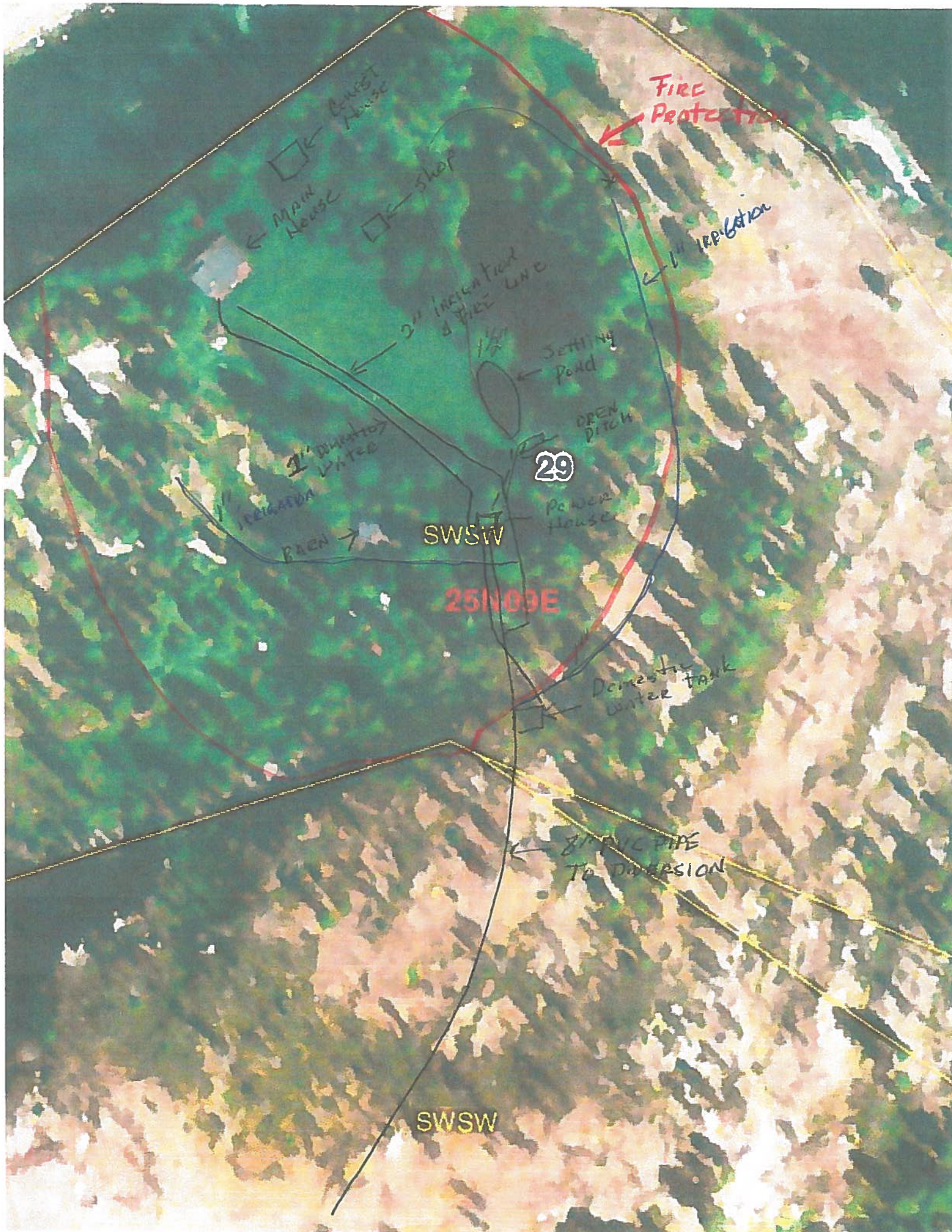
View northerly of water from the Power House discharging to a settling pond.

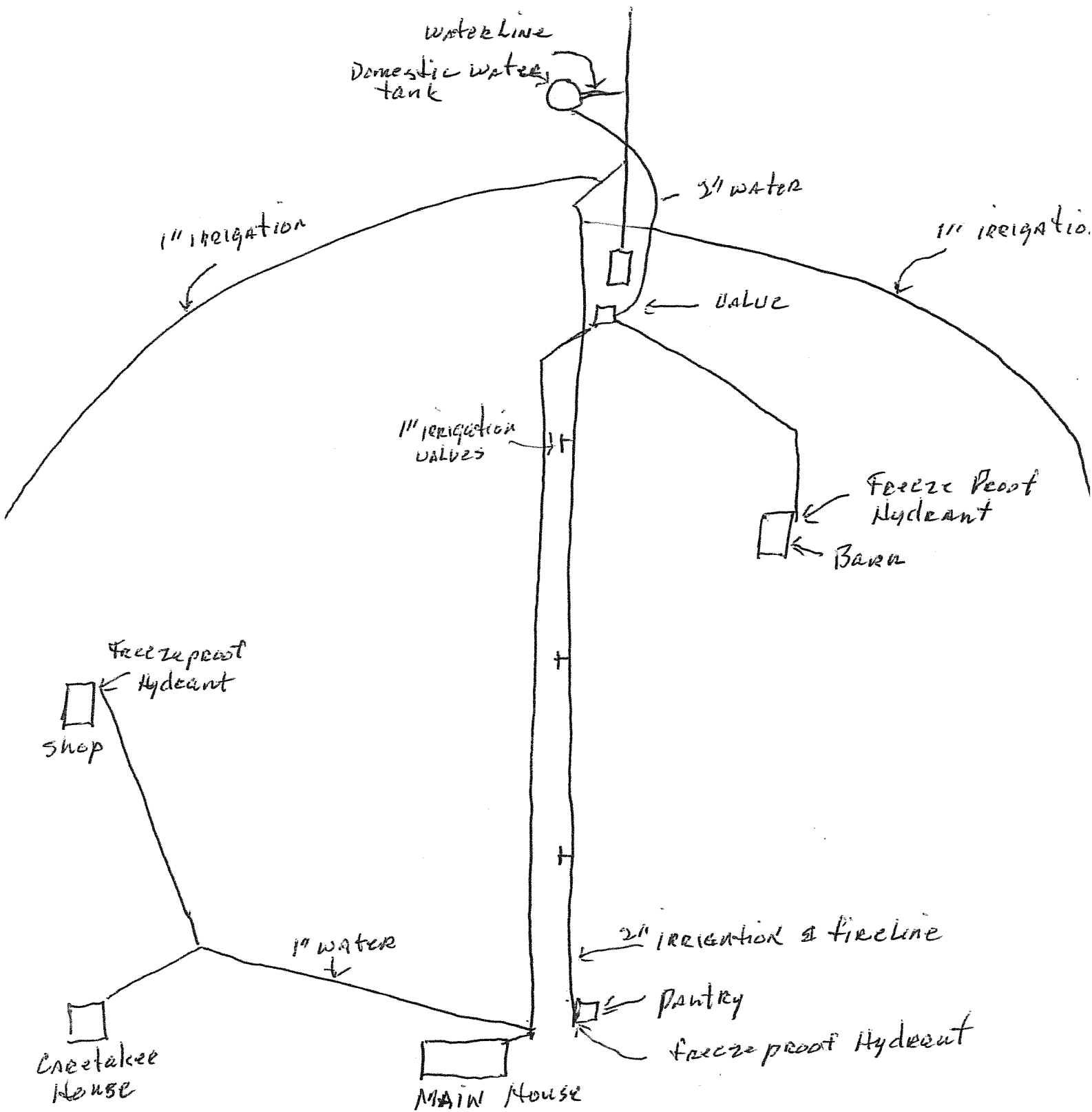


Place of Use: View northerly of the main house and pantry building.



Place of Use: View northeasterly of the guest house.





China Bar Water System

RECEIVED

AUG 12 2011

WATER RESOURCES
WESTERN REGION

Water for both permits is diverted from Lemhi creek (see photo) and transported through an 8" pipe to the power house (see photos). This pipe provides water for power production, irrigation, and fire protection through a series of taps off of the 8" line per attached diagram. The water passes through the power house and into a settling pond where it seeps back into the ground. There is no pump on the pond. There are 15 to 30 rainbird sprinklers that are moved continuously around the property that provide both irrigation and fire protection. There is a 500 gallon water storage tank for domestic water per attached diagram.

MEMORANDUM

TO: Files 77-7161 and 77-14280

FROM: Kay Walker *Kay*

RE: Licensing without amendments

Date: June 24, 2014

.....

In review of the above referenced permits for licensing, I found that the point of diversion recommended was not the same as shown on the permits. I had requested licensing amendments to change the point of diversion based on information while preparing the draft licenses and arc map.

I sent out licensing amendment requests for both of these permits on May 6, 2014. I did not receive a response so on May 30th I sent second notices that we needed licensing amendments in order to finalize these rights. The permit holder, Mr. James Campbell called me on June 3rd and said that he did not receive the correspondence of May 6 and that the system was developed as originally filed, no changes had been made and he did not understand the need for the licensing amendments. I told him I would look into the records and see what I could find.

The correction to the point of diversion that was requested cannot be confirmed because the land in this area is unsurveyed (see topographical maps Q15 & Q16 for verification) and we have no good information to determine if there was a change in the point of diversion or not. I discussed this with my supervisor this morning and because I cannot confirm the exact location of the point of diversion, due to the land being unsurveyed, we can proceed without amendments. I called Mr. Campbell and relayed the good news.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 30, 2014

JAMES CAMPBELL &/OR JEANNE CAMPBELL
PO BOX 1978
MC CALL ID 83638-1978

*home
208-634-4242
cell
208-630-4433*

RE: Permit Nos. 77-7161 and 77-14280

Dear Permit Holders:

The Department of Water Resources sent you Applications for Amendment forms on May 6, 2014, for the above referenced Permits. The amendments are required because the field examiner who verified the water use established in connection with your permits reported that one or more elements of your water use differs from the permits. As of this date the Department has not received a response.

If we do not receive the amendments within thirty (30) days, I will assume you are no longer interested in obtaining water right licenses and **the permits will be voided**. In case the amendment forms we sent you have been misplaced, new ones are enclosed.

If you have any questions, please contact me as soon as possible at (208)334-2190.

Sincerely,

Kay Walker

KAY WALKER
Sr. Water Resource Agent

Enclosures

*email
jcAMPB2125.
@AOL.com*

*says there have been no changes
since original filing - need to
review & get back to him.
tw
6-3-14*



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 6, 2014

JAMES CAMPBELL &/or JEANNE CAMPBELL
PO BOX 1978
MC CALL ID 83638-1978

RE: Water Right Permit No. 77-7161

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

 Point of Diversion

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

We have also found that Right 77-10054 appears to be the right you are using for your domestic use. This right was decreed for stockwater and domestic uses in the name of J.B. Scott. I have included a proof report of this right for your information. If you are indeed using this right, you should file the enclosed "Notice of Change in Water Right Ownership" form to change this right to your names.

If you have any questions, please call me at (208)334-2190.

Sincerely,

A handwritten signature in cursive script that reads "Kay Walker".

KAY WALKER
Sr. Water Resource Agent

Enclosures

MEMORANDUM

TO: File 77-7161

FROM: Kay Walker *KW*

RE: Term Limit for Proposed License

Date: February 25, 2014

.....

I contacted the permit holder by e-mail on January 30, 2014, to obtain information regarding the installation of this system and the age of the equipment used in system pursuant to Administrator's Memorandum No. 14 (Licensing).

Permit holder responded with very little information. He said that he believes the equipment was installed in the late 1980's and has not been changed. He expects the equipment to last into the future with regular maintenance and minor repairs.

Since this is such a small system and only used for water for the permit holders personal use I recommend we license this right with a term limit that runs from the year of permit issuance (2007) plus 25 years, to expire on December 31,2032.

Walker, Kay

From: jcampb2125@aol.com
Sent: Thursday, January 30, 2014 11:01 AM
To: Walker, Kay
Subject: Re: Permit 77-7161 for Hydropower

I am in Mexico for the winter and do not have the paperwork here but believe that the equipment was installed in the late 1980's. The equipment has not been replaced and remains original. It is still operating perfectly and we expect it to continue for the future except for minor repairs.

-----Original Message-----

From: Walker, Kay <Kay.Walker@idwr.idaho.gov>
To: jcampb2125 <jcampb2125@aol.com>
Cc: Walker, Kay <Kay.Walker@idwr.idaho.gov>; Collingwood, Rick <Rick.Collingwood@idwr.idaho.gov>
Sent: Thu, Jan 30, 2014 10:27 am
Subject: Permit 77-7161 for Hydropower

Mr. Campbell:

We are in the process of reviewing your permit for license and find we need additional information regarding your power generation system.

We need to know what year the system was installed and what the useful life of the power generating equipment is expected. This information was not included in the paperwork you submitted from Canyon Industries. Are you using the same equipment that was originally installed? If you have replaced any of your equipment, from what was originally installed, we need to know that information also. If you could please advise me of this information we can proceed with licensing of your permit.

If you have any questions regarding this matter, please do not hesitate to contact me or Rick Collingwood at (208)334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent
Western Regional Office

Collingwood, Rick

From: jcampb2125@aol.com
Sent: Saturday, January 18, 2014 8:24 AM
To: Collingwood, Rick
Subject: Re: Water Right Permits 77-7161 & 77-14280

The creek is not diverted. There is a collection box installed at the side of the creek with a headgate control valve with a lock and chain as evidenced by the photo previously submitted. The flow is also controlled by the hydro and will not exceed the permit limit (see engineering previously submitted). There is no overflow channel. The pond has never overflowed because the water flowing into the pond is controlled and is never more than the pond can handle. The entire system is static pressure. There are no pumps. The domestic water tank is 300 gallons and is underground. We have no fire hydrants other than the irrigation and frost free hydrants.

We do not pump water from the pond. The irrigation is all done with hoses and rainbirds

-----Original Message-----

From: Collingwood, Rick <Rick.Collingwood@idwr.idaho.gov>

To: jcampb2125 <jcampb2125@aol.com>

Sent: Thu, Jan 16, 2014 3:20 pm

Subject: Water Right Permits 77-7161 & 77-14280

Jim,

I am currently preparing my reports for your two water right permits, and I have a few questions for each permit:

77-7161: Domestic, Fire Protection, Power

1. Point of Diversion at Lemhi Creek: Is the wheel slide gate on the downstream side of the diversion structure the flow control for the 8" PVC penstock? If this is the flow control valve, is there a mechanism on the frame in which to lock the wheel with a chain and padlock?
2. Has a measuring device been installed? If not, is there a section of the 8" PVC penstock which is accessible to install a measuring device if a flow measurement was required by the Department?
3. Is there an overflow channel or spillway for the settling pond to discharge water to the Salmon River?
4. Are the water lines pressurized from the static head in the water tank, or are booster pumps used to maintain adequate pressure for domestic use and fire protection?
5. What size or volume capacity is the water tank? Is the tank above ground or buried?
6. What mechanisms do you have to fight a fire? You have the perimeter irrigation system and the frost-free hydrants. Do you have any other hydrants or facilities in which to fight a fire?

77-14280: Irrigation

1. Do you irrigate solely with water in the domestic water tank, or do you also pump water from the settling pond? If you pump water from the settling pond, please provide photos and pump and motor data, ie. – horsepower, model, model & serial numbers of pump and motor, etc.
2. Particulars on the irrigation system – number of stations, types or models of sprinkler (pop-up rotary and spray, impact rotary (Rainbird)). How many sprinklers per station and operating pressure of system.

Thanks,

Rick Collingwood, P.E.
Water Resource Agent, Sr.



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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

July 12, 2013

James & Jeanne Campbell
P.O. Box 1978
McCall, ID 83638-1978

RE: Scheduling Field Exam for Water Right Permit No. 77-7161

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 13, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 2.0 cfs from Lemhi Creek for domestic use, fire protection, and hydropower.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 2, 2013, to conduct the exam on August 13, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.