

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-7360

Exam Date: 7/14/2009

1. Current Owner: Zubers (Michael Francis now owns this property, once the permit is licensed he will submit an o/c to the record, Michaels address is 61 E Hanover Dr, Orem UT 84058 and phone 801-361-2966) update

2. Accompanied by: Larry Huttash

Phone No: 469-0955

Address: 424 Lower Ranch Dr New Meadows 83654

Relationship to Permit Holder: Michael's son-in-law

3. SOURCE

UNNAMED STREAM

TRIBUTARY

ELK CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

UNNAMED STREAM SW1/4NE1/4NW1/4 Sec. 26, Twp 22N, Rge 01E, B.M. IDAHO County

Method of Determination: Site visit

2.

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
22N	01E	26					X												

Method of Determination: Site visit and 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.***

NA-NO DIVERSION WORKS

D. FLOW MEASUREMENTS

1. No measurement possible, on-stream pond, open discharge. None needed
~water not flowing at time of site visit

E. FLOW CALCULATIONS Measured Method: NA**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: NA
2. Volume Calculations for Other Uses: Calculation for pond capacity:

Pond measures 51' x 39' at widest points and averages around 4' in depth

$51' \times 39' = 1989 \text{ ft}^2 / 43,560 = 0.05 \text{ acre surface area} \times 4' = 0.2 \text{ acre feet capacity}$

G. NARRATIVE/REMARKS/COMMENTS

Source: At the time of the field exam the unnamed stream was reduced to a trickle and very little residual water remained in the unlined pond. Larry informed me that the unnamed stream runs pretty good up until June or so. The pond has a spillway that discharges water back into the stream channel which then goes onto the neighboring property (Mortensons). Larry expressed concern about the availability of water and he felt an upstream user may be taking/controlling the unnamed stream without authorization. I told him that most likely the supply dwindles due to the reduced runoff. A prior investigation took place regarding upstream right 78-2072 that determined the nature of any remaining water in the unnamed stream channel after runoff is wastewater.

An estimate regarding the stream's max flow rate is available for this unnamed stream, aka Givens-Warren Ditch, that dates back to 1978 (see attached flow calculation sheet). The estimates seem to indicate that the stream may carry up to 1.04 cfs during high flows. This information is pertinent because it tells me that during high flows the pond will fill within a 24 hour period: $1.04 \text{ cfs} \times 1.9835 = 2.06 \text{ af}$ (the pond has a capacity of 0.2 af). Even if the estimate of 1.04 cfs is high, the stream can run within 90% of the estimate and still fill the pond within 24 hours. ***Note that during low flows, the pond does not fill in less than 24 hours as depicted in the field exam photos. At this time we are not authorizing a pond or "wide spot" in the stream channel because it may cause injury to a downstream user in the unnamed stream or Elk Creek. At some point in the future the right holder may have to file for a water right to authorize the pond.***

Ownership: The original owners, the Zubers, sold the property to Michael Francis. The parcel number for this property is RP22n01e264376A. Michael will file and ownership change once this right is licensed per my instruction.

Beneficial Use: I spoke to Larry about the fire protection and he said last year the fire department came in and filled up their truck from the subject pond to extinguish a nearby fire. Beneficial use has occurred. Since the pond is small enough to fill within 24 hours fire protection use is applicable. The permit authorized up to 0.2 cfs for fire protection use which is reasonable given that home firefighting pumps can provide any where from 40 gpm up to 300 gpm (see attached spec sheets) and fire truck pumps start out at 250 gpm (see attached).

Point of Diversion

There is only one point where water enters into this pond as illustrated in the system diagram.

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>
FIRE PROTECTION	01/01 to 12/31	0.20 CFS	
<u>Totals:</u>		0.20 CFS	

2. Recommended Amendments-NONE**I. AUTHENTICATION**

Field Examiner's Name

Cherie Padella

Date

field exam conducted 7/14/09

Reviewer

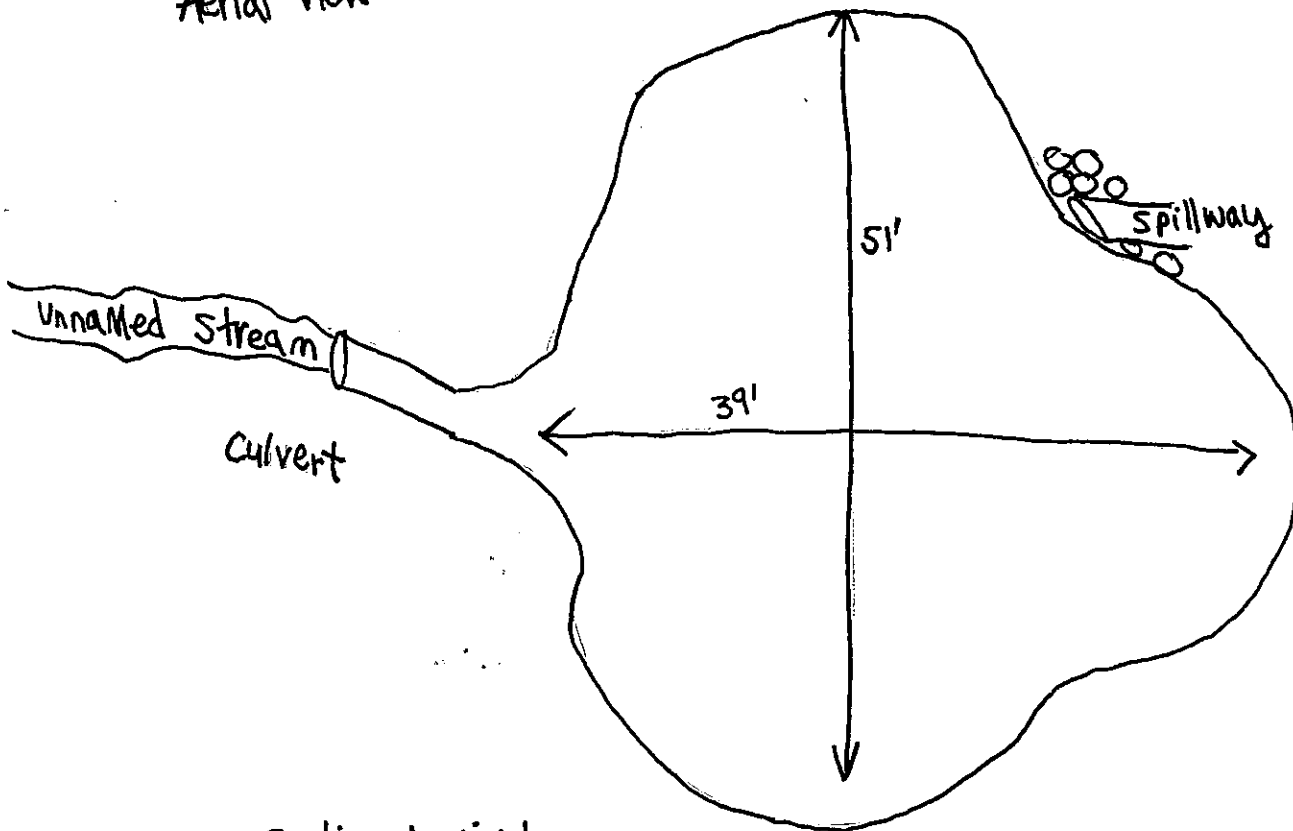
CP

Date

of report 9/9/09

System Diagram

Aerial View



Cross Sectional View

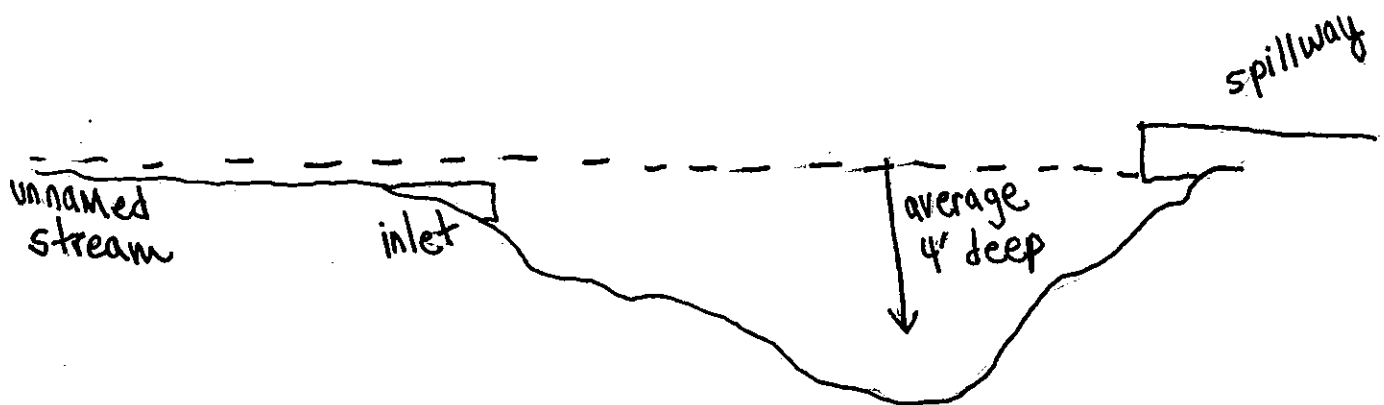




Photo 1-POND
Spillway

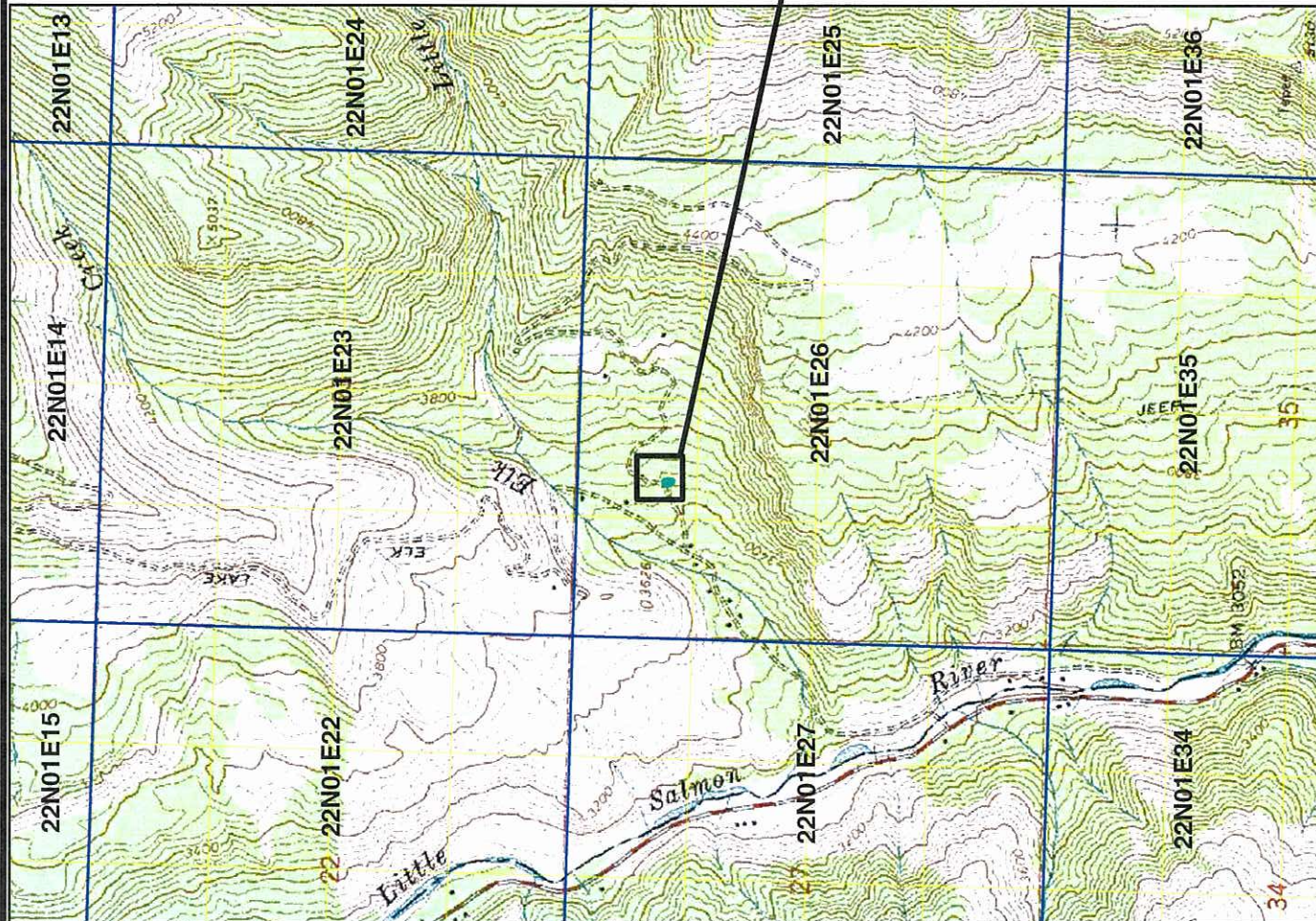


Photo 2-POND
Taken facing
SW direction.



Photo 3-Photo taken facing NE direction. The culvert is located within natural stream channel that funnels water into pond.

2



DRG-Indian Mountain R8

POU Map for Right 78-7360

Map Created by Cherie Padilla 9/8/2009



Note that the taxlot layer is shifted and the pond is entirely on Michael's property.

NAIP 2004



Legend

- 78-7360POU
- Township/Range
- Sections
- QQ
- Taxlots

1-8-0/12

FLOW CALCULATION

To estimate the flow in the Givens-Warren Ditch at its peak flow records for the similar water year 1976 were studied. During June of that year the peak flows in the Little Salmon River at Riggins were in the 2000 cfs to 3000 cfs range and later in that month the flow settled down to 1200 cfs. Since during my examination of July 14, 1978 the Givens were not diverting water, I assume that the best estimate of the maximum flow in the Little Salmon during diversion of water by the Givens is 1200 cfs. On August 4, 1976 the flow in the Little Salmon River was 400 cfs. Thus the flow in the Little Salmon River fell to 1/3 of the June flow during which the Givens would be diverting the water.

Now assuming that the streams from which the Givens divert water decreased similarly the flow in the concrete box at the maximum would be 1.04 cfs, since the flow I measured on August 4 was 0.346 cfs in the concrete box. (See measurement notes)

To estimate the flow diverted at the point of diversion the Moritz's loss method and the printout is attached. The estimate of the flow diverted is 1.29 cfs.

* Information taken from file 78-2072

MICROFILMED

[Click here to learn how to choose a fire pump!](#)

Our pump systems have always been built using true HIGH PRESSURE
(150+ PSI) Australian Fire Pumps!

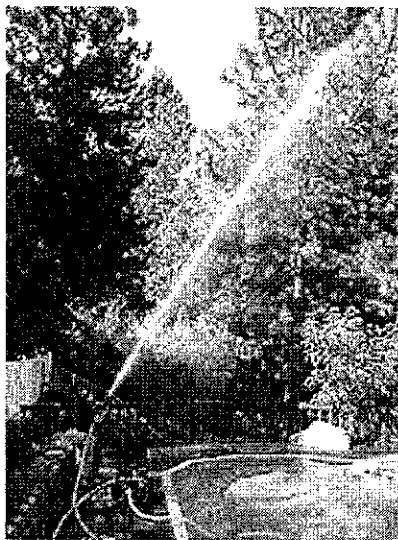
(Not low pressure dredging or trash pumps like some others would try to sell you!)

Our systems **EXCEED** USDA Forest Service Wildland Fire Engine performance
requirements as follows:

USDA Wildland Fire Engine Type	USDA Minimum Specification	Home Firefighting? Cart System	Home Firefighting? Cart System Performance
Type 4 & 5	> 50 GPM @ 100 PSI	9hp Firefighter?	> 80 GPM @ 100 PSI
Type 6	> 30 GPM @ 100 PSI	6hp Firefighter?	> 40 GPM @ 100 PSI

Our Home Firefighting? Cart Systems come fully equipped with everything you need to
Defend Your Defensible Space² before the fire department arrives.

Built with high-performance Davey Firefighter? 5+ Twin Impeller Fire Pumps our carts deliver
over 150 PSI (providing over 350' of vertical lift) and feature professional forestry fire hose,
ruggedized aluminum professional firefighting nozzles and a professional aluminum D-
handle shutoff with rubber pistol grip for better control of the fire hose.





[Customer Login](#) | [View Cart](#)

Call us toll free: 1.800.563.FIRE (3473)

- [Home](#)
- [Products](#)
- [News & Info](#)
- [Blog](#)
- [About](#)
- [FAQ's](#)
- [Contact Us](#)
- [Distributors](#)
- [Submit Query](#)

DID YOU KNOW?

The average Fire Engine holds 500 gallons of water.

The average Swimming Pool holds 25,000 gallons of water; enough to fill 50 Fire Engines!

A Garden Hose delivers about 5 gallons per minute.

Best Fire Defense™ Fire Prevention Pumps can deliver up to 300 gallons per minute!

Our Pumps can be used to refill a fire engine every 5 minutes.

Maintaining 100 feet of Defensible Space is a great idea to protect your home; it's also the law!

[Press Releases](#) | [In The News](#) | [Customer Testimonials](#) | [Relevant News](#) | [Media Kit](#)

BFD Press Releases

[Best Fire Defense LLC Launches; Unveils New Portable Fire Prevention Pump to Protect Property Against Devastating Wildfires](#) 10/29/08

[Best Fire Defense Fire Prevention Pump; Personal, Portable Device a Savior in Wildfires](#) 10/02/08

BFD In The News

[MarketWatch covers Best Fire Defense Pump Unveiling](#) 10/29/08

RELEVANT LINKS

[Current Major Fires in California](#)

[California Department of Forestry \(CalFire\)](#)

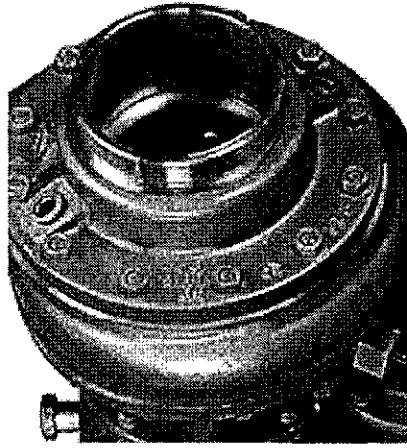
[Fire Safe Council](#)

[100 Feet – It's The Law!](#)

[About Defensible Space – County of San Diego](#)

[Community Emergency Response Team C.E.R.T.](#)

[USGS Earthquake Preparedness](#)



MIDSHIP MOUNTED

KHM Pumps

The KHM series pumps have been a best seller for almost 30 years. Recently redesigned to reduce plumbing costs, these high performance compact pumps can be rate 250, 350 and 500 gpm @ 150 psi.

LSM Pumps

Rated from 500, 750 and 1000 gpm @ 150 psi, the LSM pumps are a compact solution for pump and roll pumper applications. The LSM uses many of the same castings our popular LDM series pumps allowing us to reduce the costs through mass customization.

PSM Pumps

The PSM is an ideal solution for economical pumpers and tankers due to reduced installation cost, while offering pump and roll capability. Its compact design means less space and weight on the vehicle.

LDM Pumps

Our flagship midship mounted pump. Double suction design allows for highly efficient operation and a compact design. Thousands are in service. Ratings from 1000 - 17 gpm.

EM Pumps