

State of Idaho
Department of Water Resources

Water Right License

WATER RIGHT NO. 92-07206

Priority: January 27, 1994

Maximum Diversion Rate:

0.18 CFS

Maximum Diversion Volume:

145.0 AF

This is to certify, that MICHAEL J NEEDHAM

MIDDLE FORK SANTA CREEK RD

PO BOX 25

TENSED ID 83870

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated January 27, 1994; and has submitted Proof of Beneficial Use on January 23, 1995. An examination indicates that the works have a diversion capacity of 0.180 cfs of water from:

UNNAMED STREAMS

tributary to SANTA CREEK

source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
FISH PROPAGATION	01/01 to 12/31	0.18 CFS	130.0 AF
FISH PROP. STORAGE	01/01 to 12/31		15.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.16 CFS	
	Totals	0.18 CFS	145.0 AF

LOCATION OF POINT(S) OF DIVERSION:

SESW , Sec. 35, Township 44N, Range 03W
BENEWAH County

PLACE OF USE: FISH PROPAGATION

TWN RGE SEC

44N 03W 35

SESW

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license shall be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.

MICROFILMED

APR 25 1993

State of Idaho
Department of Water Resources

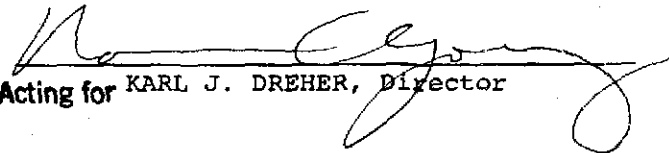
Water Right License

WATER RIGHT NO. 92-07206

CONDITIONS OF APPROVAL AND REMARKS

5. The right holder shall provide the Department, upon request, information showing volume changes per hour necessary to maintain an adequate environment for the fish propagation facility. Volume changes per hour shall be based upon actual fish production.
6. Use of water under this approval shall comply with applicable water quality standards of the Division of Environmental Quality of the Idaho Department of Health and Welfare.
7. Two points of diversion are located within SESW, S35, T44N, R3W.
8. Fish propagation and storage uses are for a fish hatchery.
9. Facility volume = 561,300 cubic feet.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this 16th day of August, 1998.


Acting for KARL J. DREHER, Director

MICROFILMED

AUG 25 1998

State of Idaho
Department of Water Resources

RECEIVED

AUG 05 1998

Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 92-07206

Date of Priority: January 27, 1994

Maximum Diversion Rate:

0.18 CFS

Maximum Diversion Volume:

145.0 AF

Comes now
MICHAEL J NEEDHAM
MIDDLE FORK SANTA CREEK RD
PO BOX 25
TENSED ID 83870

and represents to the Director of the

Idaho Department of Water Resources:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 92-07206, and requests that the permit be changed as follows:

Source: **UNNAMED STREAMS**

tributary to **SANTA CREEK**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
FISH PROPAGATION	01/01 to 12/31	0.18 CFS	130.0 AF
FISH PROP. STORAGE	01/01 to 12/31		15.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.16 CFS	
	Totals	0.18 CFS	145.0 AF

LOCATION OF POINT(S) OF DIVERSION:

SESW , Sec. 35, Township 44N, Range 03W
BENEWAH County

PLACE OF USE: FISH PROPAGATION

TWN RGE SEC

44N 03W 35

SESW

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk.

Signed at MIKE NEEDHAM'S RESIDENCE, this 3RD day of AUGUST, 1998.

MIDDLEFORK SANTA CRK. RD.

TENSED, IDAHO 83870

Michael J Needham
(Signature)

MICROFILMED

AUG 25 1998

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 92-07206

FOR DEPARTMENT USE ONLY

Preliminary check by SWK Fee = 5000 Receipted by KS # 024303 Date 8/15/98

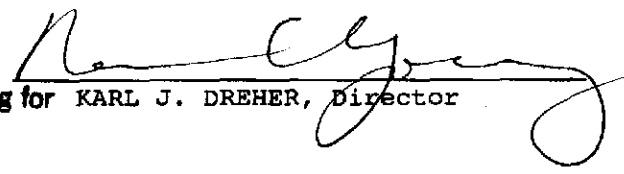
ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, Karl J. Dreher, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 92-07206 with the following;

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license shall be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. The right holder shall provide the Department, upon request, information showing volume changes per hour necessary to maintain an adequate environment for the fish propagation facility. Volume changes per hour shall be based upon actual fish production.
6. Use of water under this approval shall comply with applicable water quality standards of the Division of Environmental Quality of the Idaho Department of Health and Welfare.
7. Two points of diversion are located within SESW, S35, T44N, R3W.
8. Fish propagation and storage uses are for a fish hatchery.
9. Facility volume = 561,300 cubic feet.

Witness my hand this 10TH day of August, 1998.


Acting for KARL J. DREHER, Director

MICROFILMED
AUG 25 1998

RECEIVED

JAN 25 1995

Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

FOR OFFICE USE ONLY
Amt. of Fee \$: 100
Receipt No. 1008567
Receipt By: 82
Date Received: 1/23/94

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 92-7206 Telephone No. (208) 245-3151
2. Name(s) of Permit Holder(s): Michael J Needham
3. Mailing Address: POB 25 West Fork Santa Crk. Rd Tensed ID. 83870
4. Source of Water: Seasonal Run-off (unburnt) ☒ GROUNDWATER (well), Date Drilled: mo. - / yr. 92
 - a. Well Driller: - Drilling Permit Number: -
 - b. **OPTIONAL:**
Pump Horsepower: - Pressure (psi): - Dynamic pumping level (ft): -
5. Use(s) (as authorized by the water right permit):
Domestic (No. of households): - Stockwater (No. and type of stock): -
Irrigation (No. of acres): - Other: -
6. Total rate of diversion and/or volume for which proof is submitted: 0.96 cfs OR 15 acre feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device:	Is a measuring device required?	Yes <u>-</u>	or	No <u>✓</u>
	Has the measuring device been installed?	Yes <u>-</u>	or	No <u>-</u>
Flow Measurement Port:	Is a flow measurement port required?	Yes <u>-</u>	or	No <u>✓</u>
	Has the measurement port been installed?	Yes <u>-</u>	or	No <u>-</u>
8. Fee Enclosed: \$ - (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: Michael J. Needham Telephone Number: 208-245-3151
Address: POB 25 West Fork Santa Crk. Rd Tensed ID 83870
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder:

Michael J. Needham
(include your title, if on behalf of company or organization)
(Needham Enterprises)

Date:

1-23-95

MAR 8 1995

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 92-07206

Proposed Priority: January 27, 1994 Maximum Diversion Rate: 0.96 CFS

This is to certify, that **MICHAEL J NEEDHAM**
PO BOX 44
SANTA ID 83866-0044
has applied for a permit to appropriate water from:

UNNAMED STREAMS tributary of **SANTA CREEK**

and a permit is **APPROVED** for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
FISH PROP. STORAGE	01/01 to 12/31		15.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.96 CFS	
	Totals	0.96 CFS	

LOCATION OF POINT(S) OF DIVERSION: SESW , Sec. 35, Township 44N, Range 03W
BENEWAH County

PLACE OF USE: FISH PROP. STORAGE

TWN RGE SEC

44N 03W 35 SESW

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **April 1, 1999**.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. Assignment or sale of this right is subject to a determination by the Department that the right holder has proceeded to develop the right with due diligence and without speculation.
5. The right holder shall be required to provide the Department, upon request, information showing volume changes per hour necessary to maintain an adequate environment for the fish propagation facility. Volume changes per hour shall be based upon actual fish production.
6. Water used under this right if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.
7. Two points of diversion are located within SESW, S35, T44N, R03W. Fish propagation storage use is for a fish hatchery.

RECEIVED

APR 2 1994

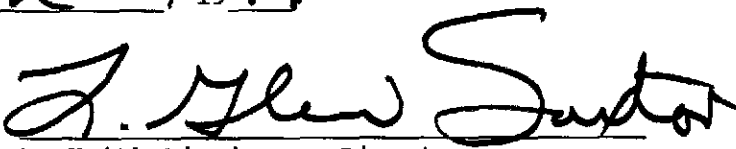
State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 92-07206

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

21st day of March, 1994

for

R. Keith Higginson, Director



APR 21 1994



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 92-7206

Department of Water Resources To appropriate the public waters of the State of Idaho

1. Name of applicant Michael J. Needham Phone _____
Post office address PO Box 44 Santa, ID 83866-0044
2. Source of water supply Unnamed Streams which is a tributary of Santa Creek
3. Location of point of diversion is _____ $\frac{1}{4}$ of SE $\frac{1}{4}$ of SW $\frac{1}{4}$, Govt. Lot _____
Sec. 35 Township 44 N Range 3 W B.M. Benewah County; additional
points of diversion if any: 2 points of diversion in the SE $\frac{1}{4}$ SW $\frac{1}{4}$
4. Water will be used for the following purposes:
Amount 0.96 for Diversions to Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount 15 for Fish Prop. Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 0.96 and/or (b) 15
cubic feet per second acre feet per annum
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc. Ponds + ditches for fish propagation
 - b. Height of storage dam 8 feet; active reservoir capacity 15 acre-feet; total reservoir capacity 15 acre-feet; period of year when water will be diverted to storage:
1/1 to 12/31 inclusive.
 - c. Proposed well diameter is NA inches; proposed depth of well is NA feet.
 - d. Is ground water with a temperature of greater than 90°F being sought? NA
7. Time required for the completion of the works and application of the water to the proposed beneficial use is
5 years (minimum 1 year).

APR 21 1994

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in KW. _____
- b. Stockwatering; list number and kind of livestock. _____
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. _____
- e. Other; describe fully. Fish Propagation

9. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
44N	3W	35												H					

Total number of acres to be irrigated _____

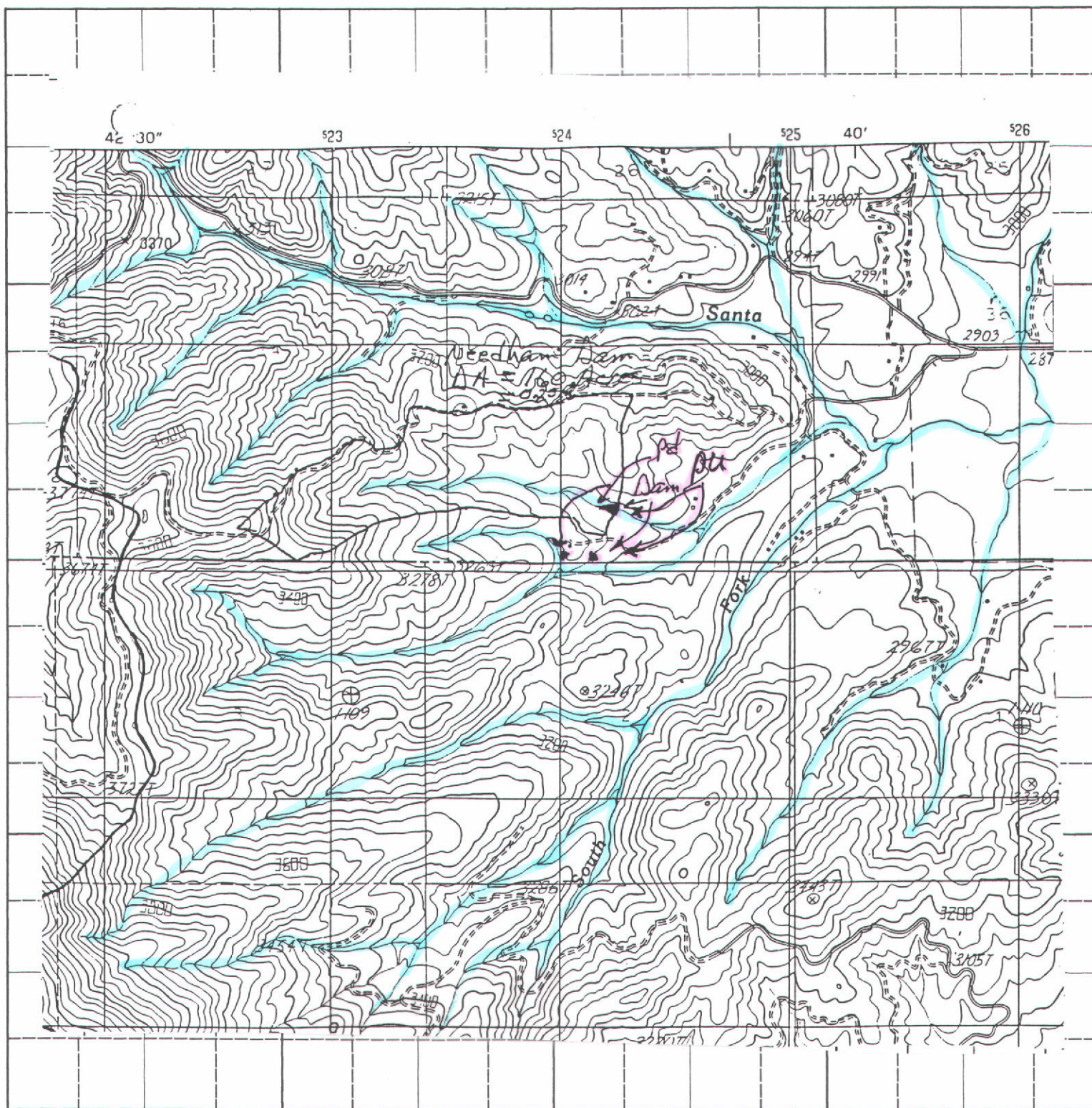
10. Describe any other water rights used for the same purposes as described above. 92-7140 + 92-7203

11. a. Who owns the property at the point of diversion? Applicant
- b. Who owns the land to be irrigated or place of use? Applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

12. Remarks: TWO DIVERSION POINTS ARE LOCATED WITHIN SE¼SW, S35,
T44N, R03W, FISH PROPAGATION^{STORAGE} IS FOR FISH HATCHERY.

APR 21 1994

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

APR 21 1994

Michael J. Needham
(Applicant)

Received by DE Date 1/27/94 Time 9:45am Preliminary check by AB
Fee \$ 30 Receipted by DE # N00 7306 Date 1/27/94
Publication prepared by pm Date 2/10/94 Published in Idaho Water Rights Law
Publication approved pm Date 2/28/94

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby _____.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

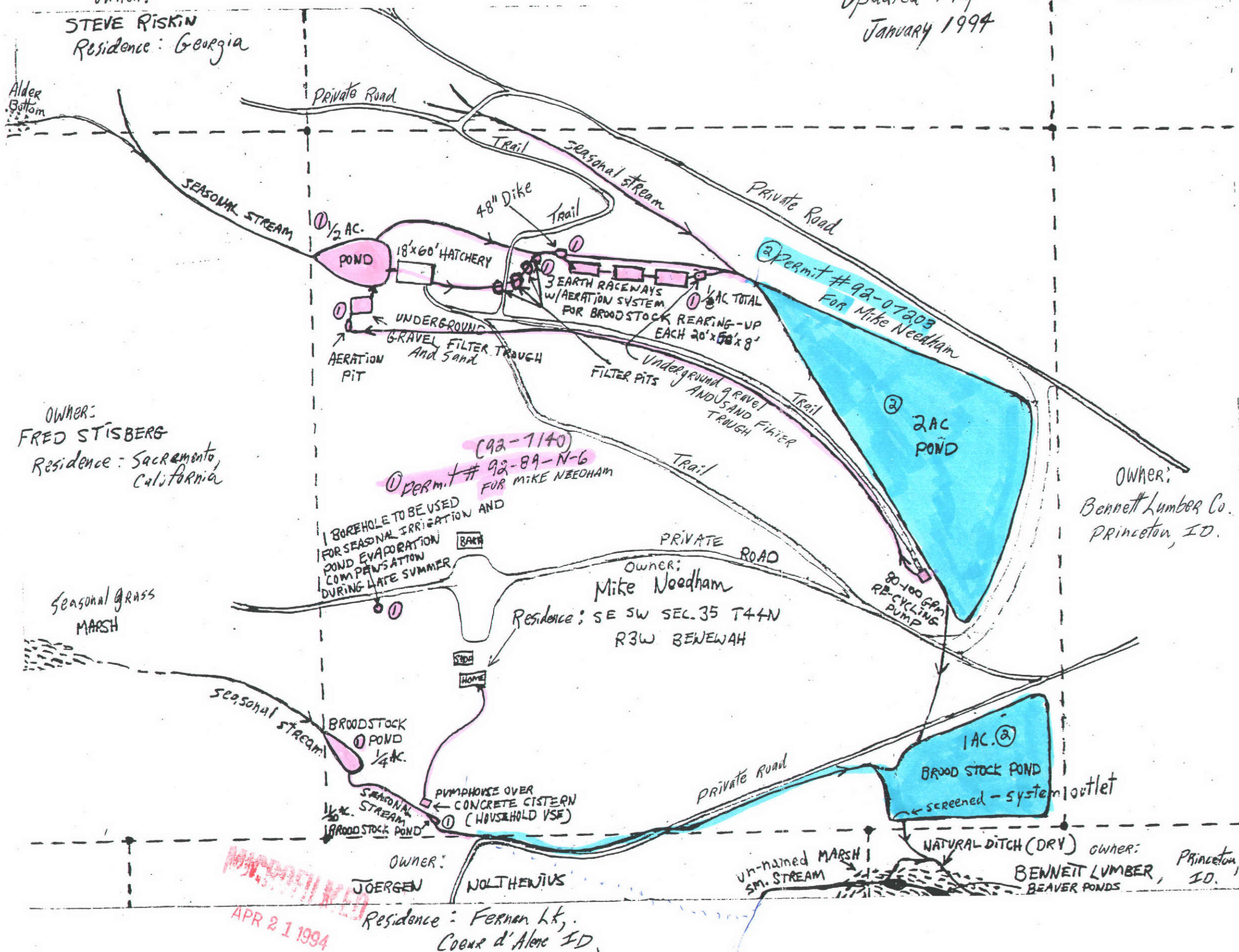
b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19 ____.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other:

Updated Map
January 1994



WR0749NP
No. L92-07206

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 05/29/98
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	MICHAEL J NEEDHAM MIDDLE FORK SANTA CREEK RD PO BOX 25 TENSED ID 83870 (208) 245-3151	01/27/1994	FISH PROPAGATION FISH PROP. STORAGE DIVERSION TO STORAGE	01/01 12/31 01/01 12/31 01/01 12/31	0.180 CFS 0.160 CFS	130.00 AFA 15.00 AFA
TOTAL DIVERSION:					0.180 CFS	145.00 AFA

Water Source: UNNAMED STREAMS

Tributary to: SANTA CREEK

Stage: LICENSE

Point(s) of Diversion Capacity: 0.180 CFS

Point(s) of Diversion: T44N R03W S35

SESW

BENEWAH County

Place of use Legal Description for: FISH PROPAGATION

NE				NW				SW				SE				
T	R	S	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:
44N	03W	35	:													:

F

Pou County: BENEWAH

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):

92-07141 92-07203 92-07206 92-07212 L92-07141

Other Water Rights Listing Overlapping Place(s) of use:

92-04130

Conditions of Approval:

- 042 - The right holder shall provide the Department, upon request,
 - information showing volume changes per hour necessary to
 - maintain an adequate environment for the fish propagation
 - facility. Volume changes per hour shall be based upon actual
 - fish production.
- 081 - Use of water under this approval shall comply with applicable
 - water quality standards of the Division of Environmental Quality
 - of the Idaho Department of Health and Welfare.

Remarks: GEN Two points of diversion are located within SESW, S35,
T44N, R3W.
Fish propagation and storage uses are for a fish hatchery.
Facility volume = 561,300 cubic feet.

Dates: App. Received: 01/27/1994 Priority Date: 01/27/1994
Proof Due Date: 04/01/1999 Proof Made Date: 01/23/1995
Exam Made Date: 05/08/1996 Exam Sent to S.O.: 10/18/1996
Licensed Date:

Misc: Water District Number: Field Exam Fee: R (Received)

WR0749NP
No. L92-07206

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 05/29/98
PAGE: 2

=====
Comments: Date: 02/08/1994 User-ID: STYPA Subject: DIVERSION DESCRIPTION
Ponds and ditches for fish propagation.
Dam height is 8 feet, active reservoir capacity is 15 AF;
total reservoir capacity 15 AF; period of year when water will be
diverted to storage 1/1 to 12/31 inclusive.
Other water rights: 92-7140 and 92-7203.

Date: 01/25/1995 User-ID: VAULT Subject: Proof of Beneficial Use Rcvd
Proof of Beneficial Use Rcvd

Audit: 05/19/98 SCURTIS 05/20/98 SCURTIS 05/29/98 SCURTIS

MEMORANDUM

TO: Files 92-07141 and 92-07206

FROM: Sharla

DATE: July 17, 1998

RE: Licensing Recommendation Adjustments

The adjustments to licensing recommendations for Permit Nos. 92-07141 and 92-07206 are as follows:

H. RECOMMENDATIONS

92-07141:

Fish Propagation	1/1 - 12/31	0.06 cfs	42.6 afa
Fish Prop. Storage	1/1 - 12/31		13.5 afa
	TOTALS	0.06 cfs	56.1 afa

92-07206:

Fish Propagation	1/1 - 12/31	0.18 cfs	130.0 afa
Fish Prop. Storage	1/1 - 12/31		15.0 afa
	TOTALS	0.16 cfs	145.0 afa

The rate is based on the re-exam measurements multiplied by 3 as recommended by Al Beardslee due to measurements being made AFTER the early season run-off.

The original exam reports recommended storage only, however, a direct flow component is required for continuous changes through the raceways.

Examiner: Ted McCracken

Exam Date: May 8, 1996

MICROFILMED

AUG 25 1998

MEMORANDUM

TO: File 92-07206

FROM: Sharla

DATE: May 19, 1998

RE: Annual Volume for Fish Propagation Use

Per a memo dated 1/15/88, volume is calculated this way:

1. Calculate changes per hour:
total flow into facility x 3600/facility volume(cf) = changes
2. Calculate annual volume:
facility volume(AF) x changes x 8760 = AFA
3. Calculate volume given by permitted flow:
flow rate(cfs) x 1.98 x 365 days = AFA
4. Recommend lower figure

-
1. 0.18 cfs x 3600/ 561,300 cf = 0.00115
 2. 12.9 AF x 0.00115 x 8760 = 130.0 AFA
 3. 0.18 cfs x 1.98 x 365 days = 130.1 AFA

RECOMMENDATION: 130.0 AFA

MICROFILMED

AUG 25 1998

LICENSE REVIEW CHECKLIST

PERMIT NO. 92-07206 DATE 5/18/98 REVIEWER: SHARLA

NAME Change/OK
 Address OK
 SOURCE OK Does change clarify orig. intended source? If no, Void permit
 POINT OF DIV Chg 3 Change (Para P39 - gov P40/P47) Add (P45/P42)
 W32 (multiple in 1/4)
 W36 (overlap)
 W59 (subd. desc)

Overlaps: Right(s):
 File reviewed Profile reports printed

PLACE OF USE OK Change (P41 - gov P43/P47) Add (P41/P42)
 W60 (subd. desc)
 W27 (ppu acre limit)

Overlaps: Right(s):
 File reviewed Profile reports printed

RATE OF DIV
 Permitted Rate .96 cfs 15 af
 Fee limit 1.0 cfs 100 af \$10000
 Measured .96 cfs X 3 = .28
 Theoretical 1.00 cfs
 Recommended Total Div Rate .28 cfs
 Meas. pts. 4b, 6
1, 6, 8, 10

WATER USES Chg
 Fish stor. .28 cfs 15.0 af Irrig - overlap (R58-R61, R62-R65, R66-R69)
 Fish .16 cfs 151.4 af supp. gw (WB7/065/079)
 Div to stor. .16 cfs af overlap spec. combined rts (W35)
af af <1acre (W31)
af af Domestic (W01/WB5/070/071/075)
 TOTALS .28 cfs 166.4 af Power (W42 or W43/025/027/R22 or R23)
 Fish (042) Fire (077) Wtr Quality (081/007)

Flow rate .21 cfs X 365 days X 1.98 = 151.8 af
 REMARKS Facility volume = 561,300 af run fish
(472,500 lower lake) Calc sheet
28,800 brood stock ponds
60,000 raceways

ADD'L CONDITIONS Watermaster Control WD#
 GW Measurement/Measuring Device
 Others Trust (052/R55 - remove 051) Non-trust (048/049)

Advance Priority yes no SRBA Claim N/A Adjust Memo direct flow
 Amend letters P45, P38
P42

DAM SUMMARY SHEET

December 16, 1996

NEEDHAM
92 . 7203

INVENTORY _____ A
BASIN _____ 92
DAM NUMBER _____ 7203
FED ID NUMBER _____
DAM NAME _____ NEEDHAM
COUNTY _____ BENEWAH
STREAM _____ TR-SANTA CREEK
REGION _____ N
PURPOSE _____ H
RISK CATEGORY _____ 3
SIZE CATEGORY _____ 3
Q-Q SECTION _____ SESW
SECTION _____ 35
TOWNSHIP _____ 44N
RANGE _____ 03W
LATITUDE DEC _____ 47.1106
LONGITUDE DEC _____ 116.6809
DAM TYPE _____ EARTH
STORAGE CAPACITY _____ 19.00 ACFT
HEIGHT _____ 19.00 FT
DRAINAGE AREA _____ 0.30 SQMI
RESERVOIR AREA _____ 2.00 AC
YEAR COMPLETED _____ 1994
CREST ELEVATION _____ 3,030.00 MSL
CREST LENGTH _____ 370.00 FT
SPILLWAY TYPE _____ RPCHAN
SPILLWAY DEPTH _____ 4.00 FT
SPILLWAY CAPACITY _____ 65.00 CFS
OUTLET TYPE _____ NONE
OUTLET SIZE _____ 0 IN
OUTLET CAPACITY _____ 0.00 CFS
IDF _____ Q50
IDF MAGNITUDE _____ 23.00 CFS
RELEASE CAPACITY _____ 65.00 CFS

CONDITION _____ GD
MAINTENANCE _____ ROUTINE
INSPECTION DATE _____ 0996 MO/YR
CERTIFICATE EXP DATE _____ 1198 MO/YR
LAST RISK EVALUATION _____ 0693 MO/YR
SURVEY DATE _____ 6/25/96 MO/DD/YR
CALL UP DATE _____ MO/DD/YR
CERT ISSUE DATE _____ 12/ 6/96 MO/DD/YR
INSPECTION INTERVAL _____ 2YR
PHASE I INSP DATE _____
OPERATION PLAN _____ N
SEISMIC ANALYSIS _____ N
RESTRICTED _____
JOINT INSPECTION _____
QUAD NUMBER _____ H55
QUAD NAME _____ WEST DENNIS

DAM OWNER _____ MICHAEL J NEEDHAM
ADDRESS - 1 _____
ADDRESS - 2 _____ PO BOX 44
CITY _____ SANTA
STATE _____ ID
ZIP CODE _____ 83866
ZIP SUFFIX _____
PHONE _____ 2453151
AREA CODE _____ 208

GENERAL REMARKS : DRAIN AREA - 180 ACRES. RESV AREA - 1.5 ACRES. DAM CREST RAISED AND LEVELED IN SUMMER 1996. NOT YET SURVEYED. SPILLWAY DEPTH ESTIMATED.

TECHNICAL REMARKS : SPILLWAY & RELEASE CAPACITIES ARE WITH 2.0' FB. SPILLWAY CAPACITY CONTROLLED BY 6 FOOT CMP USED FOR ROAD CROSSING IN LOWER SPILLWAY CHANNEL. AN ELECTRIC PUMP WILL BE USED TO DRAW RESERVOIR DOWN IF NEEDED.

RESTRICTIONS :

ALTERNATE CONTACTS :

Needham Nan
A92-7203
9/1/94



Looking down the spillway channel toward
the culvert under the access road to
Needhams house.

MICROFILMED

AUG 25 1998

Needham Dam
D92-7203
9/1/94

Reservoir area and
small island from
the dam crest.

Downstream Slope
looking toward the
left abutment.

Downstream Slope
looking toward the
right abutment.



Upstream slope &
dam crest looking
toward the right
abutment

Right abutment
area. The arrows
show the entrance
to the spillway
channel.

MICROFILMED

AUG 25 1998

Needham Dam
D92-7203
9/10/96

Dam crest from
the left abutment



Downstream slope
from the left
abutment.



closer view of the
downstream slope.

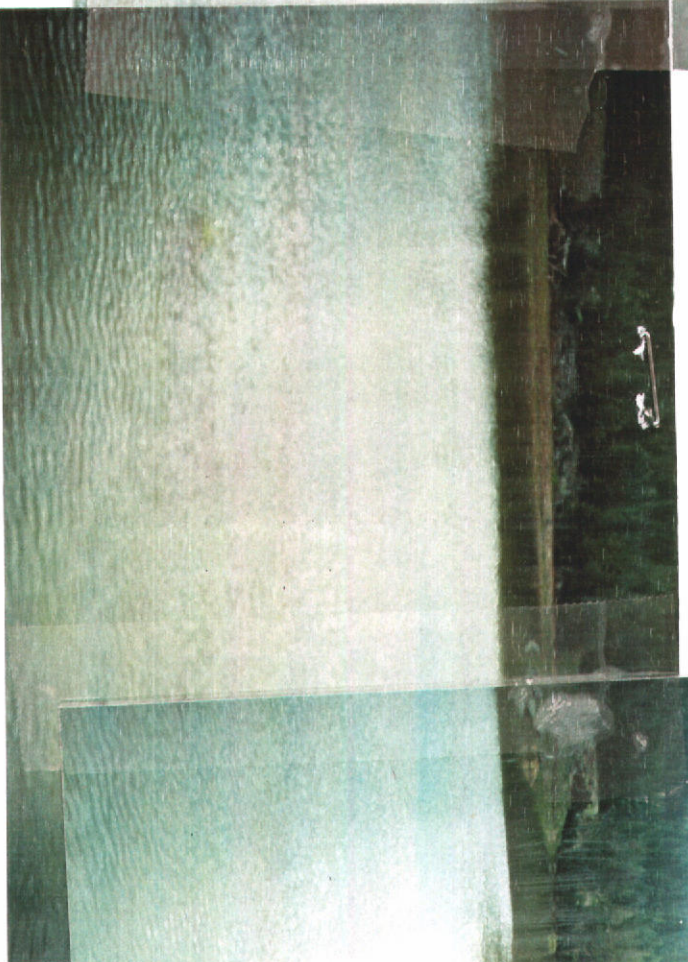


MICROFILMED

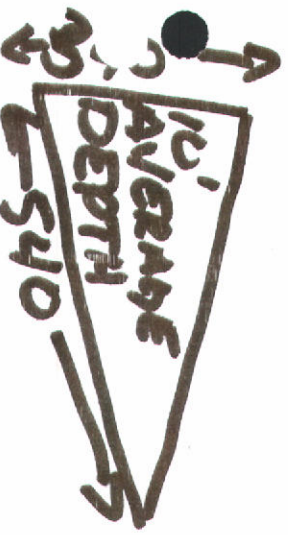
AUG 25 1998

5/8/96

Perm # 92-07203



NEEDHAM'S UPPER LAKE



$$\frac{540 \times 340}{2} = 91,800 \text{ ft}^2$$

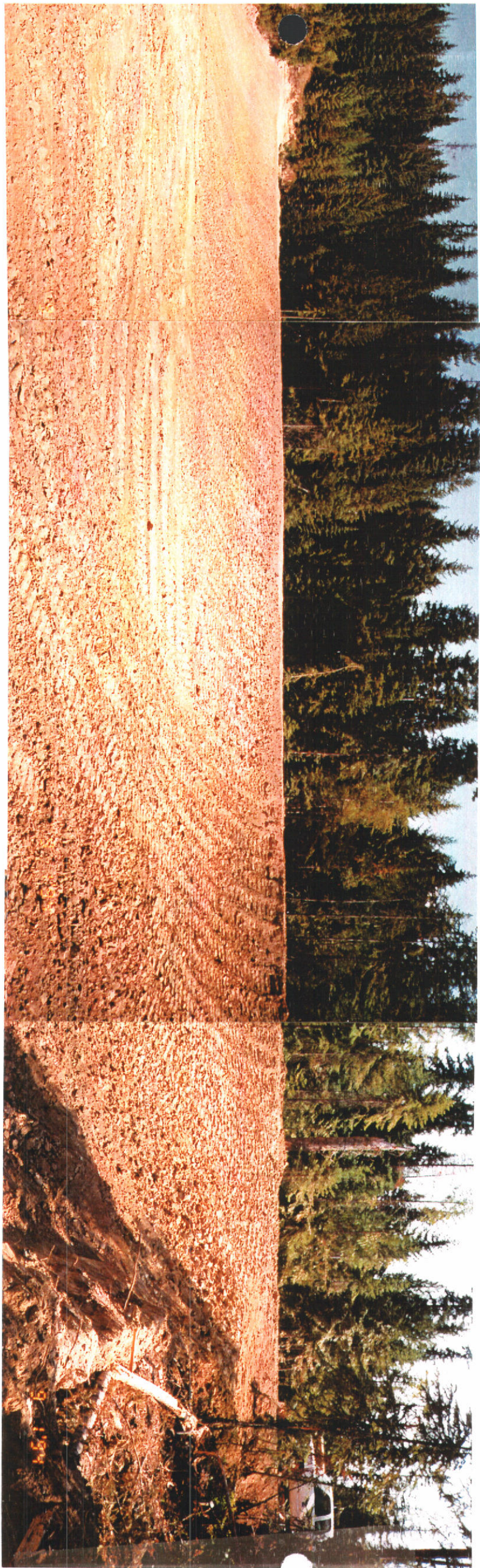
43,500

PICTURE TAKEN FROM
NE CORNER OF LAKE
LOOKING WEST

21.145

MICROFILMED
DEC 1 1 1997

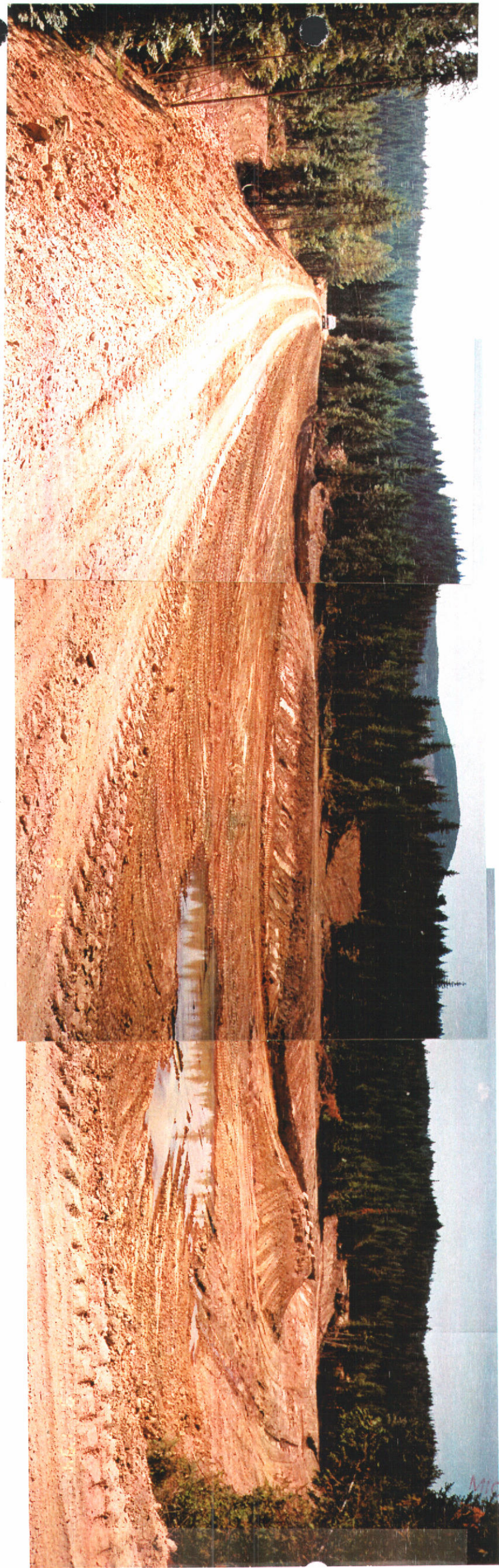
MICROFILMED
AUG 2 5 1998



Upstream slope from the entrance to the spillway channel.

MICROFILMED
AUG 25 1998

1092-7203
9/1/94



Reservoir area and dam embankment from the left abutment.

MICROFILMED
25 1998

1192-7203
9/1/94

MEASUREMENT POINTS

owner:

STEVE RISKIN

Residence: Georgia

OWNER: Ken Cunningham
Residence: SPOKANE, WA.

COMPLETE FARM MAP
NEEDHAM ENTERPRISES
COMMERCIAL LIC. # 57
STATE OF ID. DEPT. OF AGR.

INCLUDES PARTIAL
WATERSHEDS FOR
BOTH UPPER AND
LOWER NEEDHAM
LAKE DRAINAGE

NOTE: SOILS IN THE BASIN ARE HIGHLY ERODIBLE, AND THERE ARE 3 POINTS OF DOMESTIC USE, AND A FISH HATCHERY BELOW, AT ITS BASE

OWNER:
FRED STISBERG

Residence: Sacramento,
California

California
water Right permit
92-7140 Drill
for Mike # 9
Needham

Drilling Permit
92-89-N-6
BARE
LEASE

BOREHOLE TO BE USED
FOR SEASONAL IRRIGATION AND
POND EVAPORATION
COMPENSATION
DURING WATE SUMMER.

ROCKED-PRIVATE ROAD
Owner;
Michael J. Noedham
e; SE SW SEC. 35 T44N
R3W BENJAH

OWNER:
Bennett Lumber
Princeton I.

1
1 (MIDDLE FORKS SANTA C
1 COUNTY RD. ENDS
1 HERE
TURN AROUND

WCH (DRY) OWNER: PR
BENNETT LUMBER, I
BEAVER PONDS (REMNANTS)
MARSH

MARSH

Memorandum

Date: April 29, 1998

From: Beardslee

To: ~~Keen~~ Files

RE: Mike Needham / Flow Measurements

~~~~~  
On April 22, 1998, we conducted stream flow measurements at various points throughout Mr. Needham's fish pond system.

Mr. Needham explained to us that since the high flow run off was earlier than normal this year and that what we measured represented approximately 1/3 of the flow at each point.

For Licensing purposes, we recommend that the flow measurements be taken times 3, for the diversion rates.

MICROFILMED

8116 2 5 1998

8661 5 2 90V  
MICROFILMED  
AUG 25 1998

MIKE NEEDHAM  
- 245-3151 -

4/29/98  
FROM: BEARDSLEY  
TO: KEEN  
RE: NEEDHAM

6/10/71 . . .  
HIGHLIGHTED AREAS  
MARK LOCATIONS WHERE  
WE SHOULD GET MEASUREMENTS

RECEIVED  
MAY 11 1998  
Department of Water Resources

MIKE NEEDHAM  
92-07206 P  
245-3151  
92-07141 P  
92-07212 L  
92-07203 L

MICROFILMED  
AUG 25 1998

92-07141

Mike Needham

Beverah county

Source; unnamed Stream

T44N R3W Sec 35 S2SW

Tributary to; Santa Creek, South Fork

Location notes; #4, 4B, 4C, #5

$$\# 4. \quad 4 \text{ gal in } 13.98 \text{ sec.} = \frac{4 \text{ gal}}{X} = \frac{13.98 \text{ sec.}}{60 \text{ sec.}} = \frac{240}{13.98} = 17.17 \text{ gpm}$$

$$\# 4B \quad 4 \text{ gal in } 80 \text{ sec.} = \frac{4 \text{ gal}}{X} = \frac{80 \text{ sec.}}{60 \text{ sec.}} = \frac{240}{80} = 3 \text{ gpm}$$

$$\# 4C \quad 4 \text{ gal in } 19.37 \text{ sec.} = \frac{4 \text{ gal}}{X} = \frac{19.37 \text{ sec.}}{60 \text{ sec.}} = \frac{240}{19.37} = 12.39 \text{ gpm}$$

$$\# 5 \quad 4 \text{ gal in } 51.73 = \frac{4 \text{ gal}}{X} = \frac{51.73 \text{ sec.}}{60 \text{ sec.}} = \frac{240}{51.73} = 4.64 \text{ gpm}$$

total = 37.2 gpm

MICROFILMED

AUG 25 1998

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

RECEIVED

OCT 21 1996

Department of Water Resources

**A. GENERAL INFORMATION**

Permit No. 92-07206

1. Owner: Michael J Needham Phone No. \_\_\_\_\_

Current Address: P.O. Box 25 W fork Santa Creek rd. Tensed Id 83870

2. Accompanied by: owner EXAM DATE: 5/8/96

Address: same as above Phone No. \_\_\_\_\_

Relationship to Permit Holder: \_\_\_\_\_

3. Source: unnamed streams tributary to Santa Creek

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 92-04130

2. Other water rights with the same point of diversion: \_\_\_\_\_

**C. DIVERSION AND DELIVERY SYSTEM**

**1. Point(s) of Diversion:**

| Ident No. | Gov't Lot | 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. | County   | Method of Determination/Remarks |
|-----------|-----------|-----|-----|-----|------|------|------|----------|---------------------------------|
|           |           | SE  | SE  | SW  | 35   | 44N  | 03W  | Benedict | Usgs 7.5 min quad               |
|           |           | NW  | SE  | SW  | 35   | 44N  | 03W  | Benedict | Usgs 7.5 min quad               |
|           |           |     |     |     |      |      |      |          |                                 |
|           |           |     |     |     |      |      |      |          |                                 |

**2. Place(s) of Use:**

Indicate Method of Determination Usgs 7.5 min quad

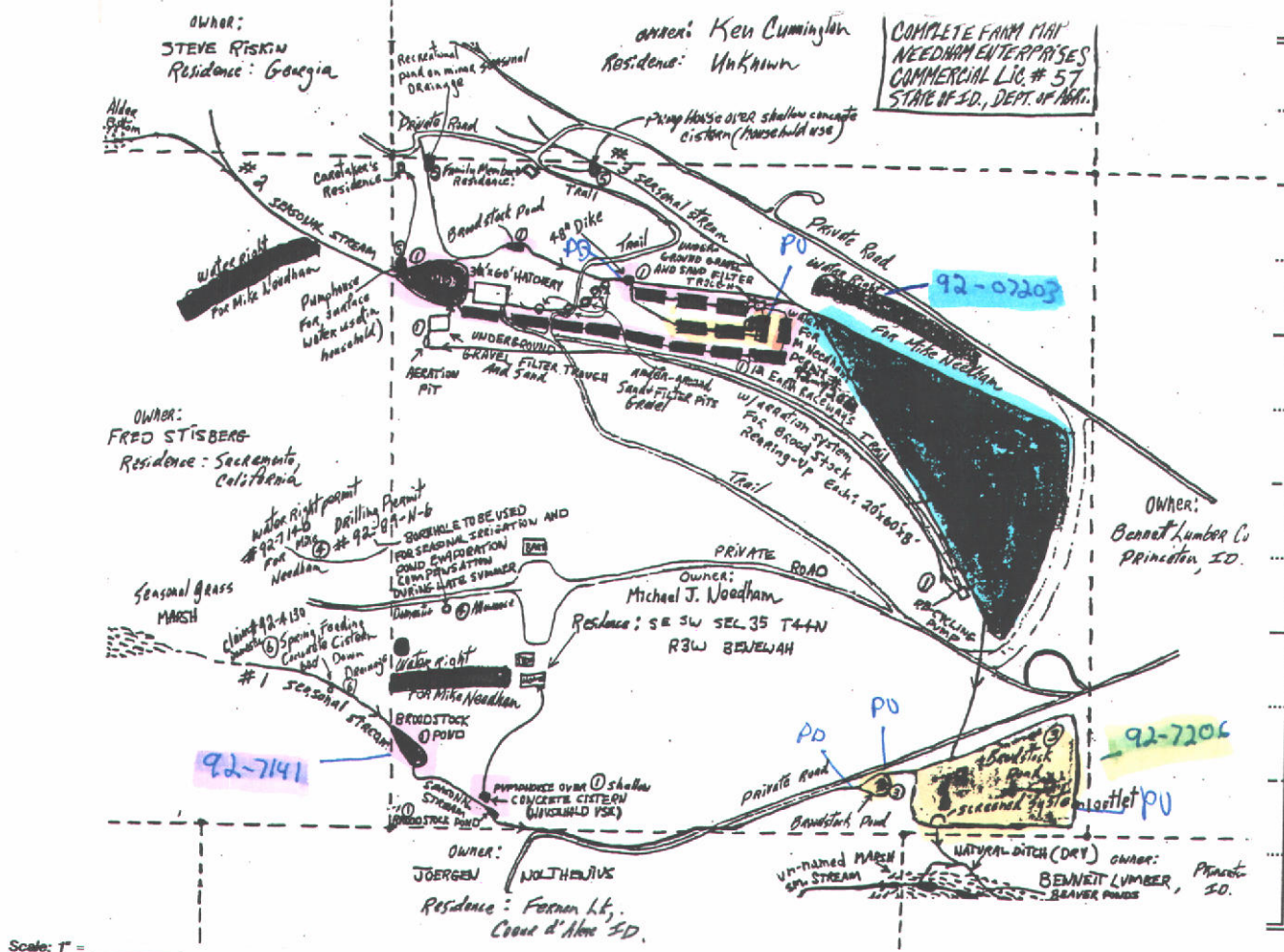
| TWP             | RGE             | SEC | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----------------|-----------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|                 |                 |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 44 <sub>N</sub> | 03 <sub>W</sub> | 35  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|                 |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
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(F = FISH PROPAGATION STORAGE)

MICROFILMED

200 2 1 1998

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = \_\_\_\_\_

\_\_\_\_ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

\_\_\_\_ Aerial Photo Attached (required for irrigation of 10+ acres)

\_\_\_\_ Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|------------|----|------------------|-----------|-----------------------------------|
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |

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

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements: \_\_\_\_\_

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AUG 25 1998

E. NARRATIVE/REMARKS/COMMENTS

Water from 2 unnamed streamers is used to fill 2 Brookstock ponds and 3 raceways for fish propagation. These ponds are on the natural stream channels and is not diverted from these channels so there is no diversion to storage.

Have conditions of permit approval been met? ☒ yes ☐ no

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AUG 25 1998

**F. FLOW CALCULATIONS**

Additional Computation Sheets Attached

Measured Method:

**G. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

## 2. Volume Calculations for Other Uses:

$$\textcircled{3} \text{ RACEWAYS} \quad \frac{20 \times 75 \times 8}{43560} = .83$$

$$\textcircled{1} \text{ POND} \quad \frac{30 \times 60 \times 10}{43560} = .41$$

$$\textcircled{1} \text{ POND} \quad \frac{250 \times 200 \times 12}{43560} = 13.7$$

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| Beneficial Use           | Period of Use |              | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|--------------------------|---------------|--------------|------------------------------|--------------------------|
|                          | From          | To           |                              |                          |
| <u>fish prop storage</u> | <u>01-01</u>  | <u>12-31</u> | <u>—</u>                     | <u>14.94</u>             |
|                          |               |              |                              |                          |
|                          |               |              |                              |                          |
|                          |               |              |                              |                          |
|                          |               |              |                              |                          |
| <b>Totals:</b>           |               |              |                              | <u>14.94</u>             |

## 2. Recommended Amendments

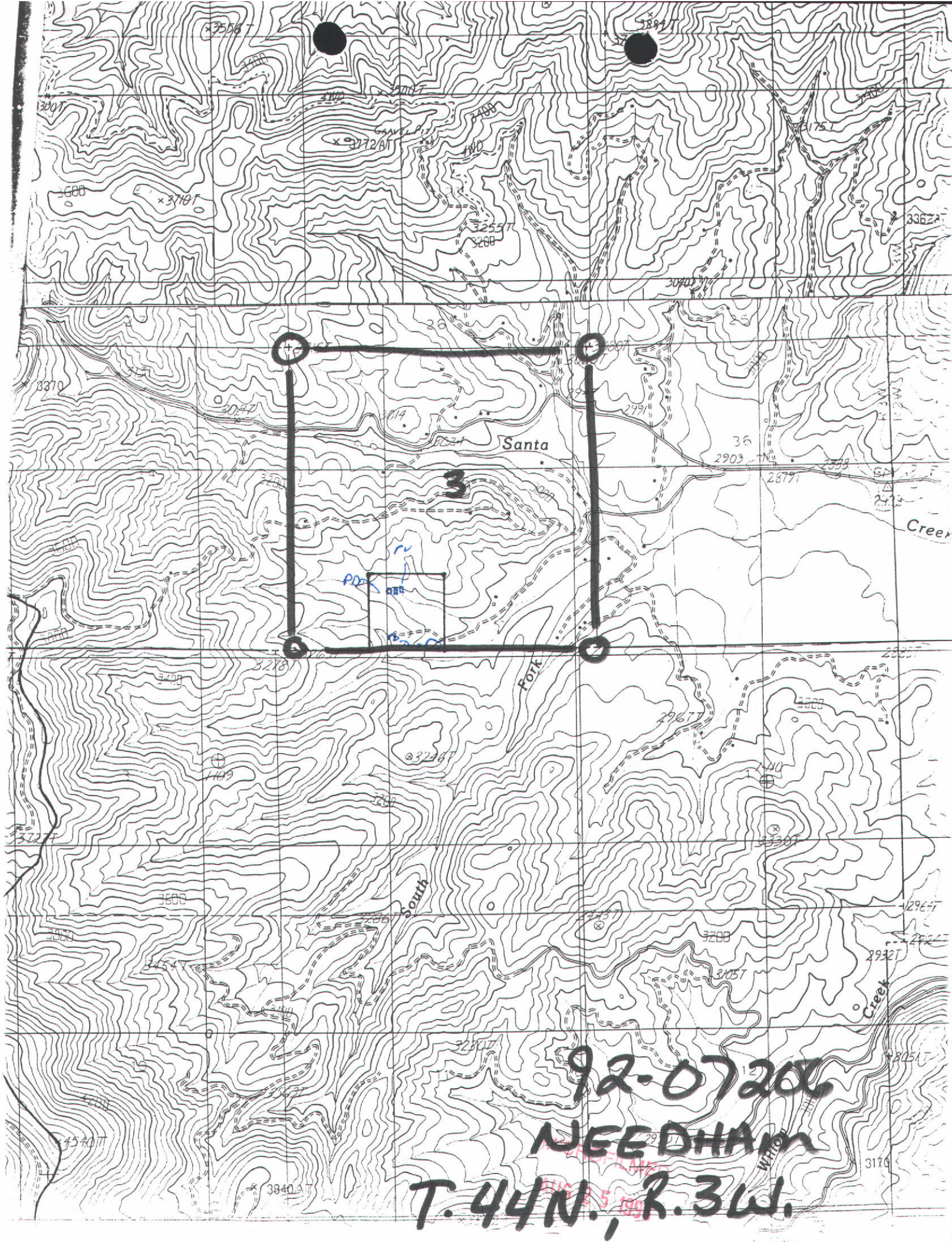
☐ Change P.D. as reflected above    ☐ Add P.D. as reflected above    ☐ None  
☐ Change P.U. as reflected above    ☐ Add P.U. as reflected above    ☐ Other

**I. AUTHENTICATION**Field Examiner's Name Ad M<sup>c</sup>Cracken Date 11/12/95

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

 REC'D  
 AUG 25 1998





92-07206  
NEEDHAM  
T. 44N., R. 3W.

PERMIT # 92-07206



5/8/96

"FISH RACE WAYS"

60' LONG x 20' WIDE x 8' DEEP AV.

$$\frac{60' \times 20' \times 8'}{43560} = 0.22 \text{ AF/PER RACE WAY}$$

$$3 \text{ RACE WAYS} \times 0.22 \text{ AF} = 0.66 \text{ AF}$$

TOTAL

MICROFILMED  
AUG 25 1998

PERMIT # 92-0720



5/8/96

BROODSTOCK POND

DIMENSIONS:

60' WIDE X 100' LONG X 10' AVERAGE  
DEPTH

$$\frac{60' \times 100' \times 10'}{43560} = \frac{60,000}{43560} = 1.38 \text{ AC}$$

PICTURE TAKEN FROM  
NW CORNER OF POND  
LOOKING EAST

MICROFILMED  
AUG 25 1998

PERMIT # 92-07206



5/8/96

MICROFILMED  
AUG 25 1998

"NEEDHAM'S LOWER LAKE"

DIMENSIONS: TRIANGLE SHAPE



$$\frac{300' \times 210'}{2} = 31,500 \text{ ft}^2 \times 15' \quad 10.8 \text{ AC}$$

---

43,560



7/90

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
OPEN CHANNEL DISCHARGE MEASUREMENT NOTES

GENERAL INFORMATION

CLAIM / WATER RIGHT NUMBER: 92-07141

SOURCE: unnamed Stream  
TRIBUTARY TO: Santa Creek, South Fork COUNTY: Benewah  
DATE: 4-22-98 LOCATION: T. 44N R. 3W SEC. 35 , 1/4 SE 1/4 SW 1/4  
LOCATION NOTES: # 7

PERSON(S) CONDUCTING MEAS.: D. Page  
ACCOMPANIED BY:

MEAS. DEVICE Pygmy I.D. NO.  
SPIN TEST: BEFORE MEAS. 1.08 min AFTER MEAS. 50.2 sec.  
COMPUTED BY: D. Page DATE: 4/23/98 CHECKED BY: DATE:

RESULTS

WIDTH: 1.9 Ft. AREA: 0.19 sq. ft. VEL: .27 fps DISCHARGE: .052 cfs

MEASUREMENT DATA

CROSS SECTION:

FLOW CONDITIONS:

DIVERSIONS UPSTREAM:

REMARKS:

SYSTEM DIAGRAM

RECEIVED

AUG 25 1998



STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
OPEN CHANNEL DISCHARGE MEASUREMENT NOTES

## GENERAL INFORMATION

CLAIM / WATER RIGHT NUMBER: 92-07141SOURCE: Unnamed StreamTRIBUTARY TO: Santa Creek, South ForkCOUNTY: BenevaDATE: 4-22-98LOCATION: T. 44N R. 3W SEC. 351/4 SE 1/4 SW 1/4LOCATION NOTES: calvert #6PERSON(S) CONDUCTING MEAS.: D. Pagel

ACCOMPANIED BY:

MEAS. DEVICE 129 PygmyI.D. NO. 1.08 minSPIN TEST: BEFORE MEAS. 1.29AFTER MEAS. 1.08COMPUTED BY: D PagelDATE: 4/24/98

CHECKED BY:

DATE:

## RESULTS

WIDTH: 2.3 ft.AREA: .11 sq. ft.VEL.: .48 FPSDISCHARGE: .054 cfs

## MEASUREMENT DATA

CROSS SECTION:

FLOW CONDITIONS:

VELOCITIES UPSTREAM:

MARKS:

## STEM DIAGRAM

RECORDED  
AUG 25 1998



7/90

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
OPEN CHANNEL DISCHARGE MEASUREMENT NOTES

GENERAL INFORMATION

CLAIM / WATER RIGHT NUMBER: 92-07141

SOURCE: unnamed stream  
TRIBUTARY TO: Santa Creek, South Fork COUNTY: Bonewah  
DATE: 4-22-98 LOCATION: T. 44N R. 3W SEC. 35, 1/4 SE 1/4 SW 1/4  
LOCATION NOTES: #3  
PERSON(S) CONDUCTING MEAS.: D. Pagel  
ACCOMPANIED BY:  
MEAS. DEVICE Pygmy I.D. NO.  
SPIN TEST: BEFORE MEAS. 1.18 AFTER MEAS. 1.10  
COMPUTED BY: D. Pagel DATE: 4-23-98 CHECKED BY: DATE:

RESULTS

WIDTH: 1.0 ft. AREA: .02 sq. ft. VEL.: .36 f/s DISCHARGE: .007 cfs

MEASUREMENT DATA

CROSS SECTION:  
FLOW CONDITIONS:  
DIVERSIONS UPSTREAM:  
REMARKS:

SYSTEM DIAGRAM

RECEIVED  
AUG 25 1998

| FROM<br>INITIAL<br>POINT | WIDTH | DEPTH | INSTN.<br>DEPTH | REVS. | TIME<br>SEC. | VELOCITY    |                     |  | AREA | DISCHARGE | DIST.<br>FROM<br>INITIAL<br>POINT | WIDTH | DEPTH | OBSERV.<br>DEPTH  | REVS. | TIME<br>SEC. | VELOCITY    |                     |     | AREA   | DISCHARGE |
|--------------------------|-------|-------|-----------------|-------|--------------|-------------|---------------------|--|------|-----------|-----------------------------------|-------|-------|-------------------|-------|--------------|-------------|---------------------|-----|--------|-----------|
|                          |       |       |                 |       |              | AT<br>POINT | MEAN<br>IN<br>VERT. |  |      |           |                                   |       |       |                   |       |              | AT<br>POINT | MEAN<br>IN<br>VERT. |     |        |           |
| 1.0                      | .10   |       | LEW             |       |              |             |                     |  |      |           | 2.1                               | .10   | .20   |                   | 2     | 41           | .049        | .02                 |     | .02    | .0098     |
| 1.2                      | .15   | .30   |                 | 7     | 41           | .171        |                     |  | .045 | .0077     | 2.2                               | .10   | .20   |                   | 10    | 43           | .233        |                     | .02 | .00466 |           |
| 1.3                      | .10   | .35   |                 | 6     | 46           | .130        |                     |  | .035 | .00455    | 2.3                               | .40   | .20   |                   | 11    | 43           | .256        |                     | .08 | .02048 |           |
| 1.4                      | .10   | .30   |                 | 11    | 43           | .256        |                     |  | .03  | .00768    | 3.0                               | .35   |       | REW               |       |              |             |                     |     |        |           |
| 1.5                      | .10   | .30   |                 | 15    | 42           | .357        |                     |  | .03  | .01071    | N                                 | N     |       |                   |       |              |             |                     |     |        |           |
| 1.6                      | .10   | .40   |                 | 8     | 45           | .178        |                     |  | .04  | .00712    |                                   |       |       | V = $\frac{Q}{A}$ |       |              |             |                     |     |        |           |
| 1.7                      | .10   | .40   |                 | 9     | 43           | .209        |                     |  | .04  | .00836    |                                   |       |       |                   |       |              |             |                     |     |        |           |
| 1.8                      | .10   | .35   |                 | 8     | 44           | .182        |                     |  | .035 | .00637    |                                   |       |       |                   |       |              |             |                     |     |        |           |
| 1.9                      | .10   | .30   |                 | 7     | 46           | .152        |                     |  | .03  | .00456    |                                   |       |       |                   |       |              |             |                     |     |        |           |
| 2.0                      | .10   | .20   |                 | 0     | 40           | 0           |                     |  | .02  | 0         |                                   |       |       |                   |       |              |             |                     |     |        |           |

DEPARTMENT OF WATER RESOURCES  
OPEN CHANNEL DISCHARGE MEASUREMENT NOTES

GENERAL INFORMATION

CLAIM / WATER RIGHT NUMBER: 92-07141

SOURCE: unnamed Stream

TRIBUTARY TO: Santa Creek, South Fork

COUNTY: Benevol

DATE: 4-22-98

LOCATION: T. 44N R. 3W SEC. 35

1/4 SE 1/4 SW 1/4

LOCATION NOTES: #2

PERSON(S) CONDUCTING MEAS.: D. Pagel

ACCOMPANIED BY:

MEAS. DEVICE Pygmy

I.D. NO.

SPIN TEST: BEFORE MEAS. 1.10

AFTER MEAS. 1.29

COMPUTED BY: D. Pagel

DATE: 4-23-98

CHECKED BY:

DATE:

RESULTS

WIDTH: 2.0 Ft.

AREA: .425 sq. ft.

VEL.: .196 Ft/sec.

DISCHARGE: .083 CFS

MEASUREMENT DATA

CROSS SECTION:

FLOW CONDITIONS:

VELOCITIES UPSTREAM:

MARKS:

SCHEMATIC DIAGRAM

41  $\overline{) 1900}$   
144  
250  
46  
# 3

3" x .1

19/41

.46  
.3  
.138

$$Q = V \times A$$

$$.46 \times .3$$

APPROVED  
4/25/98

| TICK<br>INITIAL<br>POINT | WIDTH | DEPTH | INST. DEPTH | REVS. | TIME<br>SEC. | VELOCITY    |                     | AREA  | DISCHARGE | DIST.<br>FROM<br>INITIAL<br>POINT | WIDTH | DEPTH | OBSERV.<br>DEPTH | REVS. | TIME<br>SEC. | VELOCITY    |                     | AREA  | DISCHARGE |
|--------------------------|-------|-------|-------------|-------|--------------|-------------|---------------------|-------|-----------|-----------------------------------|-------|-------|------------------|-------|--------------|-------------|---------------------|-------|-----------|
|                          |       |       |             |       |              | AT<br>POINT | MEAN<br>IN<br>VERT. |       |           |                                   |       |       |                  |       |              | AT<br>POINT | MEAN<br>IN<br>VERT. |       |           |
| 1.0                      | .15   |       | 22W         |       |              |             |                     |       |           | 2.3                               | .35   | .10   |                  | 4     | 47           | .085        |                     | .035  | .00298    |
| 1.3                      | .25   | .05   |             | 9     | 46           | .196        |                     | .0125 | .00245    | 2.9                               | .30   |       | REW              |       |              |             |                     |       |           |
| 1.5                      | .15   | .05   |             | 8     | 42           | .190        |                     | .0075 | .00142    | 1.9                               | 1.90  |       |                  |       |              |             |                     | .0125 | .01862    |
| 1.6                      | .10   | .10   |             | 12    | 44           | .273        |                     | .01   | .00273    |                                   |       |       |                  |       |              |             |                     |       |           |
| 1.7                      | .10   | .10   |             | 10    | 42           | .238        |                     | .01   | .00238    |                                   |       |       |                  |       |              |             |                     |       |           |
| 1.8                      | .10   | .10   |             | 7     | 45           | .156        |                     | .01   | .00156    |                                   |       |       |                  |       |              |             |                     |       |           |
| 1.9                      | .10   | .10   |             | 8     | 44           | .182        |                     | .01   | .00182    |                                   |       |       |                  |       |              |             |                     |       |           |
| 2.0                      | .10   | .10   |             | 5     | 45           | .111        |                     | .01   | .00111    |                                   |       |       |                  |       |              |             |                     |       |           |
| 2.1                      | .10   | .10   |             | 4     | 42           | .095        |                     | .01   | .00095    |                                   |       |       |                  |       |              |             |                     |       |           |
| 2.2                      | .10   | .10   |             | 5     | 41           | .122        |                     | .01   | .00122    |                                   |       |       |                  |       |              |             |                     |       |           |

$$V = \frac{Q}{A}$$

$$= \frac{.01862}{.0125} = 1.4896$$

$$= \frac{.01862}{.125} = 0.14896$$

15-2-58

DEPARTMENT OF WATER RESOURCES  
OPEN CHANNEL DISCHARGE MEASUREMENT NOTES

#1

GENERAL INFORMATION

CLAIM / WATER RIGHT NUMBER: 92-07141

SOURCE: unnamed streams

TRIBUTARY TO: Santa Creek, South Fork

COUNTY: Benewah

DATE: ~~4-23-98~~ 4-22-98 LOCATION: T. 44N R. 3W SEC. 35, 1/4 SE 1/4 SW 1/4

LOCATION NOTES: #1

PERSON(S) CONDUCTING MEAS.: Dave Pagel

ACCOMPANIED BY:

MEAS. DEVICE Pygmy

I.D. NO.

PIN TEST: BEFORE MEAS. 1.21

AFTER MEAS. 1.10

COMPUTED BY: Dave Pagel

DATE: 4-23-98

CHECKED BY:

DATE:

RESULTS

WIDTH: 1.9 Ft. AREA: 0.125 Sq. Ft. VEL.: 0.149 Ft./sec. DISCHARGE: 0.019 cfs

MEASUREMENT DATA

CROSS SECTION:

FLOW CONDITIONS:

VELOCITIES UPSTREAM:

MARKS:

SCHEMATIC DIAGRAM

MEASUREMENT

APR 25 1998

44N R2W

**ANALYSIS SHEET  
FOR  
PROOF OF BENEFICIAL USE**

Permit No. 92-07206 Reviewed by [Signature] Date 1-27-95

**GENERAL CONSIDERATIONS**

**TYPES OF USE**

yes Name same as permit?  
no Address same as permit?  
yes Proof timely received? Correct Uses? \_\_\_\_\_  
If not, complete calculation below.

**SOURCE OF WATER**

✓ Surface water source  
\_\_\_\_\_ Ground water source  
\_\_\_\_\_ Drilling permit required?  
\_\_\_\_\_ Copy in the file? Drilling Permit No. \_\_\_\_\_  
\_\_\_\_\_ Amount paid for permit \_\_\_\_\_ Correct?  
\_\_\_\_\_ Well log in the file?

**LICENSE EXAMINATION FEE**

**MEASURING DEVICE**

yes Required?  
100.00 Amount Submitted  
yes Correct?  
no Required?  
\_\_\_\_\_ Installed?  
\_\_\_\_\_ Waiver requested?

**PRIORITY CALCULATION**

|                     |       |          |       |       |
|---------------------|-------|----------|-------|-------|
| Date proof received | _____ | <u>/</u> | _____ |       |
| Date proof due      | _____ |          | _____ |       |
| No. of days late    | _____ |          | =     | _____ |
| Priority Date       | _____ |          | +     | _____ |
| New Priority Date   | _____ |          |       | _____ |

**DEFICIENCIES OR ACTION ITEMS**

Proof acceptable

**DATA ENTRY**

New Address P.O. Box 25 - W. Fork Santa Cr. Rd. Tensed, Id. 83870 Proof Made 1-25-95

APPLICATION FOR PERMIT  
STATE OFFICE REVIEW  
by Cindy Zimmerman

Application #: 92-7206 Name: Needham Date: 3/16/94

AREA OF CONCERN? - No/Yes \_\_\_\_\_ Mor \_\_\_\_\_ GWMA Trust/Non-trust

SYSTEM COMPLETED:

No - 26A-~~P17~~

Complete in 1 year - P16

Yes

Proof not submitted - P16

Proof submitted - NA

GROUNDWATER:

+ 0.2 cfs <flo-ch> - T17 (new), 01K (existing), No MD

- 0.2 cfs - No MD <flow chart>

Drilling Permit:

Included w/permit - Permit No. \_\_\_\_\_, P99

Existing well - NA (pre 7/1/87)

No WD permit? - 046-46A(Irr)-46B-P23 (post 7/1/87)

SURFACE WATER: not in WD - ~~P17~~ (+.2 w/pump), No MD <flow chart>

LOCATION:

Water District(dem) - WD No. \_\_\_\_\_

\*Surface water - 005 (req) 01J-P08 <flow chart>  
(doesn't sink) or 01H-P01 <flow chart>; No MD

Groundwater - P05 (new irrigation well)

In stream channel - 030 (stream channel alteration)

Irr Dist/Canal Co. - 023 (Twin Falls area)

Drainage Districts - 024

Flood Control Dist. - 063

Boise Front (63) - 058 (-85° Groundwater temp)

Swan Falls Flag - B <See condition code chart>

Trust - 051-052-053-P74 (Consumptive Uses), NA

Non Trust <1> - 048-049 (Consumptive Uses), NA

RIVER BASINS (\*Surface water):

Boise R(63) - 05A (if WD), 11E (non-domestic use), NA

Payette R(65) - 064(consump. use), 047-P04(Payette Lake), NA

SNAKE R(01/02/03) - 11A-P04 (01), 061-P07 (02/03 No W.D.Cond.), NA

USE:

Fish Propagation - 07A-042 (req) & 010/06A/09E(WQ) ~~(P10)~~  
044 (N 1000 Spr)

Irrigation - 803(if GW use SW 1st)(+5A do POU comp), NA

Power - 08A-17K-025-027(req); 01F(MD)-P19; 09E(WQ)-P10;  
+25 cfs-P18; 17G(FERC) or 17M(FERE); 18B-P09

Mining - 054 (req) & 06A/010/09E-P10

Storage(✓ 3 compo.) - 18A(multi MD in WD), 18B-P09 (+10' dam), NA

Domestic (surface) - 021(Boise R + L Peak), 27A(Payette R), NA

OWNERSHIP:

Non land owner - 004 (PD/PU) \_\_\_\_\_

PROTESTED:

Prehearing agreement- 020

OTHER CONDITIONS:

REMARKS:

02 PD's in SESW, 53S, T44N, R03W

BENEFICIAL USE DUE:

4-1-1999

COMMENTS:

01 Qw Desc.

No. a  
4/87-06/92n

DEPARTMENT OF WATER RESOURCES  
APPROPRIATION APPLICATION ANALYSIS SHEET

**RECEIVED**  
MAR 11 1994

APPLICATION # \_\_\_\_\_

\*\*\*\*\* INITIAL REVIEW \*\*\*\*\* Department of Water Resources \*\*\*\*\*

APPLICANT: NEEDHAM

BY: AB

DATE: 1/31/94

ITEM REQUIRED INFORMATION

1. ☒ Name and Address
2. ☒ Source
3. ☒ Point of Diversion & County
4. ☒ Quantity  
☒ Nature of Proposed Use  
☒ Period of Use
5. ☒ Total Quantity
6. ☒ Description of diverting works
7. ☒ Time required for b/u
8. ☒ Proposed use
9. ☒ Place of use or acres irrigated
10. ☒ Other Water Rights
11. ☒ Ownership
13. ☒ Map  
☒ Signature  
☒ Fee (Amt, recpt, acknowlegment)

\*\*\* Send info sheet Y( ) N( )

ADDITIONAL INFORMATION

Yes No

- ☒ Field check: by \_\_\_\_\_
- ☒ Field report attached
- ☒ Analysis Supp. attached(>5cfs/500af)
- ☒ Water delivered by water master?
- Water District # \_\_\_\_\_

PROCESSING

Yes No

PRIORITY DATE: 1/27/94

☒ (Include Moratorium Remark)

☒ Statewide Avertising: (Diversion rate greater than 10 cfs or 1,000 af).

ADVERTISE IN: BENEDICT County.

LETTERS SENT REQUESTING:

( ) Dam Information ( ) Fish Information

( ) Power Information ( ) Other: N/A

INFORMATION RECEIVED:

( ) Dam Information ( ) Fish Information

( ) Power Information ( ) Other: N/A

\*\*\*\*\* GROUNDWATER SECTION \*\*\*\*\*

(Yes) (No)

Checked by: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Remarks: \_\_\_\_\_

- ☒ Groundwater management area
- ☐ Critical ground water area
- ☒ Well Drilling Permit required
- ☒ Well Drilling Application and Fees received
- ☒ Well Drilling Application approved?
- Well Drilling Application Number \_\_\_\_\_

\*\*\*\*\* FINAL REGIONAL PROCESSING/REVIEW \*\*\*\*\*

(Yes) (No)

- ☐ Notice of pending void order issued. Final order response date: \_\_\_\_/\_\_\_\_/\_\_\_\_
- ☐ Further information required from applicant
- ☒ Affidavit of publication received
- ☒ Application published correctly, If not, record action taken: \_\_\_\_\_
- ☒ Publication dates and paper recorded on application | Sr. Agent initial AB
- ☒ Protests received. Final protest date: 3/7/94
- ☐ Measuring device required
- ☐ Measuring port required
- ☐ Special conditions: \_\_\_\_\_
- ☐ Special conditions of approval supplement and/or cover letter attached: \_\_\_\_\_

Approval Recommended by: AB PUA

Date: 2/28/94