

Shaff, Don

From: Shaff, Don
Sent: Thursday, February 21, 2008 3:21 PM
To: 'Paul Arrington (pla@idahowaters.com)'
Subject: 73-4041 Idaho Power

Contacts: Paul Arrington
Attachments: 73-4041 Q Documents.pdf

Hi Paul,

Relevant to the Objection to the recommendation for 73-4041 of Idaho Power, I think you could benefit by having the attached IDWR document to review. You will find the quantity recommended was calculated rather than actually measured. The formula used to calculate the quantity presumed an 80 per cent efficiencies that is not found in reality and generous to use for the calculation. You will see from the table a 3 HP pump is incapable of delivering quantities above .22 cfs.

I do not aim solely by supplying the pair of documents in the attachment to make light of the Objection. I would welcome a qualified measurement supplied by the Claimant of the diversion works from the spring at the hatchery.

I trust this method of communicating is acceptable that allows you to take this non-urgent matter at a time of your choosing rather than an interrupting telephone call in your busy day. Feel free to call me, if you would like to discuss that matter.



73-4041 Q
Documents.pdf (211 K)

Thanks,

Don Shaff
(208)287-4921
don.shaff@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street, P.O. Box 83720, Boise, ID 83720-0098

Phone: (208) 287-4800 Fax: (208) 287-6700 Web Site: www.idwr.idaho.gov

JAMES E. RISCH
Governor

KARL J. DREHER
Director

October 6, 2006

Idaho Power Co.
P.O. Box 70
Boise, ID 83707

Re: Snake River Basin Adjudication (SRBA)
Notice of Error Reply – Subcase No. 73-4041

Dear Claimants,

Thank you for your response to our preliminary recommendation of water right claim 73-4041. Claim 73-4041 was made on a previously unverified use of water from a spring. A field visit was conducted as part of our investigation.

Bob Foster, of our staff, visited the spring site on May 11, 2006. He found diversion of the spring occurred through a 3-HP pump with approximately 10' of lift. He was unable to measure the flow directly due to the nature of the diversion works, but was able to calculate a hypothetical diversion rate using the parameters mentioned above. From that calculation, we believe the pump capable of the diversion rate recommended: 0.21 cfs.

We would be happy to examine any records or evidence that would support Idaho Power's claim. We will not change our recommendation at this time.

Sincerely,

Roxanne Brown
Water Rights Supervisor
Adjudication Bureau
Idaho Department of Water Resources

06/30/2006

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 73-4041
NAME AND ADDRESS: IDAHO POWER CO
PO BOX 70
BOISE ID 83707
SOURCE: SPRING TRIBUTARY: PAHSIMEROI RIVER
QUANTITY: 0.210 CFS
PRIORITY DATE: 03/28/1969
POINT OF DIVERSION:
T16N R20E S25 SWSE Within LEMHI County
PURPOSE AND PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
FISH PROPAGATION	01/01 12/31	0.210 CFS

PLACE OF USE: FISH PROPAGATION Within LEMHI County
T16N R20E S25 SWSE

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION SECTION
CLAIM VERIFICATION FIELD EXAM SHEET
(Use with the ECVR)**

CLAIM NO(s). 73-4041

1. ☒ No Change NAME IS SAME
☐ NEW OWNER: _____
☒ No Change ADDRESS
☐ NEW ADDRESS: _____
2. ☐ No Change - DATE OF PRIORITY: Completed evidence submitted
☐ Incomplete - Claimant should be asked during the exam when was water first used and submit proof of date of priority.

Priority date, per claimant, is: _____
(If the priority date, based on your exam, seems questionable, explain below.)

3. ☒ No Change — SAME SOURCE
☐ Source is different than that claimed:

Source found: _____

4. ☒ No Change — POINT OF DIVERSION
☐ Point of diversion is different than the claim and/or new P/D's:
GPS Site Tag No.: A0017414

Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____ 1/4 _____
Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____ 1/4 _____

5. ☐ No Change - DESCRIPTION OF DIVERTING WORKS
☐ Incomplete description, list below:

developed spring source 3 3hp pumps to 10,000
gal storage tank, piped to incubation facility

6. ☒ No Change - WATER USES
☐ Different uses, (list uses found):

Use _____	From _____	To _____	Amount _____	CFS _____	AFA _____
Use _____	From _____	To _____	Amount _____	CFS _____	AFA _____
Use _____	From _____	To _____	Amount _____	CFS _____	AFA _____

7. ☒ No Change - TOTAL VOLUME

☐ Incomplete on claim, the total is, Amount _____ CFS _____ AFA

☐ Changes found, the new total is, Amount _____ CFS _____ AFA

8. ☐ No Change - NON-IRRIGATION USES:

☐ Changes Exam found:

Domestic # of homes: _____ Stock # _____ List types: _____

Additional comments: _____

9. ☒ No Change — PLACE OF USE: (If changed, list below.)

Use: _____	Township _____	Range _____	Section _____	1/4 _____	1/4 _____
Use: _____	Township _____	Range _____	Section _____	1/4 _____	1/4 _____
Use: _____	Township _____	Range _____	Section _____	1/4 _____	1/4 _____
Use: _____	Township _____	Range _____	Section _____	1/4 _____	1/4 _____

Remarks: (Comments pertinent to field examination) ☐ See additional attachment

pumps have approx 10' of lift from spring source

☐ SYSTEM DIAGRAM INCLUDED ☐ NA

☐ Shown on GIS Layout

☐ CK IF IN OFFICE EXAM

DATE EXAM CONDUCTED: 5-11-06

FIELD EXAMINER: Bob Foster

Print Name

Bob Foster

Signature

PUMPING STATION DISCHARGE																
Pumping Plant Efficiency =															0.8	
Q = 8.8 * Hp * eff/lift + 2.31(psi)															Pressure at Well Head = 40 psi	
Horsepower																
		0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
	5	0.04	0.07	0.11	0.14	0.18	0.22	0.25	0.29	0.33	0.36	0.40	0.43	0.47	0.51	0.54
	10	0.03	0.07	0.10	0.14	0.17	0.21	0.24	0.28	0.31	0.34	0.38	0.41	0.45	0.48	0.52
	15	0.03	0.07	0.10	0.13	0.16	0.20	0.23	0.26	0.29	0.33	0.36	0.39	0.43	0.46	0.49
	20	0.03	0.06	0.09	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.38	0.41	0.44	0.47
	25	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.27	0.30	0.33	0.36	0.39	0.42	0.45
	30	0.03	0.06	0.09	0.12	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.37	0.40	0.43
	35	0.03	0.06	0.08	0.11	0.14	0.17	0.19	0.22	0.25	0.28	0.30	0.33	0.36	0.39	0.41
	40	0.03	0.05	0.08	0.11	0.13	0.16	0.19	0.21	0.24	0.27	0.29	0.32	0.35	0.37	0.40
	45	0.03	0.05	0.08	0.10	0.13	0.15	0.18	0.20	0.23	0.26	0.28	0.31	0.33	0.36	0.38
	50	0.02	0.05	0.07	0.10	0.12	0.15	0.17	0.20	0.22	0.25	0.27	0.30	0.32	0.35	0.37
	55	0.02	0.05	0.07	0.10	0.12	0.14	0.17	0.19	0.21	0.24	0.26	0.29	0.31	0.33	0.36
Depth	60	0.02	0.05	0.07	0.09	0.12	0.14	0.16	0.18	0.21	0.23	0.25	0.28	0.30	0.32	0.35
	65	0.02	0.04	0.07	0.09	0.11	0.13	0.16	0.18	0.20	0.22	0.25	0.27	0.29	0.31	0.34
	70	0.02	0.04	0.07	0.09	0.11	0.13	0.15	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.33
	75	0.02	0.04	0.06	0.08	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.32
	80	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.25	0.27	0.29	0.31
	85	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26	0.28	0.30
	90	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29
	95	0.02	0.04	0.06	0.08	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.24	0.26	0.28
	100	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.20	0.22	0.24	0.26	0.27
	105	0.02	0.04	0.05	0.07	0.09	0.11	0.12	0.14	0.16	0.18	0.20	0.21	0.23	0.25	0.27
Water	110	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.17	0.19	0.21	0.23	0.24	0.26
	115	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.24	0.25
	120	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.20	0.22	0.23	0.25
	125	0.02	0.03	0.05	0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	0.21	0.23	0.24
	130	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.19	0.21	0.22	0.24
	135	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.23
	140	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.20	0.21	0.23
	145	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22
	150	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.22
	155	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.21
	160	0.01	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.20	0.21
	165	0.01	0.03	0.04	0.05	0.07	0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.21
	170	0.01	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.20
	175	0.01	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.20
	180	0.01	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19
	185	0.01	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.13	0.14	0.15	0.16	0.18	0.19
	190	0.01	0.02	0.04	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.19
	195	0.01	0.02	0.04	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18
	200	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.10	0.11	0.12	0.13	0.14	0.16	0.17	0.18
	205	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.17	0.18
	210	0.01	0.02	0.03	0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17