MEMORANDUM

Date: January 11, 2006

To: Water Right File 79-7089

From: kwalker

Re: Volume Determination

USGS web site had flow rate records for John Day Creek (near mouth near Lucille) for only August of 1987 through October 1988. We utilized flow data for October 1987 through October 1988 for volume determination. I had requested information from the permit holder in regards to flow rate and on 12/28/05 the permit holder stated he would see what information he could come up with. As of today we have not received any additional information from permit holder.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 13316535 JOHN DAY CREEK NR MOUTH NR LUCILLE ID SOURCE AGENCY USGS STATE 16 COUNTY 049
LATITUDE 453459 LONGITUDE 1161647 NAD27 DRAINAGE AREA 21.50 CONTRIBUTING DRAINAGE AREA 21.50* DATUM
Date Processed: 2005-12-15 11:56 By sburrel
APPROVED
DD #1
Discharge, cubic feet per second
WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	8.2	5.0
2	---	---	---	---	---	---	---	---	---	---	8.1	4.9
3	---	---	---	---	---	---	---	---	---	---	7.8	5.1
4	---	---	---	---	---	---	---	---	---	---	7.7	5.1
5	---	---	---	---	---	---	---	---	---	---	7.3	5.0
6	---	---	---	---	---	---	---	---	---	---	7.1	5.1
7	---	---	---	---	---	---	---	---	---	---	7.3	5.0
8	---	---	---	---	---	---	---	---	---	---	7.4	5.1
9	---	---	---	---	---	---	---	---	---	---	7.3	5.0
10	---	---	---	---	---	---	---	---	---	---	6.6	5.0
11	---	---	---	---	---	---	---	---	---	---	5.2	5.0
12	---	---	---	---	---	---	---	---	---	---	5.2	5.2
13	---	---	---	---	---	---	---	---	---	---	5.1	5.3
14	---	---	---	---	---	---	---	---	---	---	5.1	5.4
15	---	---	---	---	---	---	---	---	---	---	4.7	5.5
16	---	---	---	---	---	---	---	---	---	---	4.7	6.0
17	---	---	---	---	---	---	---	---	---	---	4.8	6.1
18	---	---	---	---	---	---	---	---	---	---	4.7	6.5
19	---	---	---	---	---	---	---	---	---	---	4.6	6.6
20	---	---	---	---	---	---	---	---	---	---	4.6	6.5
21	---	---	---	---	---	---	---	---	---	---	4.6	6.4
22	---	---	---	---	---	---	---	---	---	---	4.7	6.4
23	---	---	---	---	---	---	---	---	---	---	4.9	6.5
24	---	---	---	---	---	---	---	---	---	---	4.9	6.4
25	---	---	---	---	---	---	---	---	---	---	5.1	6.6
26	---	---	---	---	---	---	---	---	---	---	4.6	6.8
27	---	---	---	---	---	---	---	---	---	---	4.3	6.9
28	---	---	---	---	---	---	---	---	---	---	4.1	6.8
29	---	---	---	---	---	---	---	---	---	---	4.0	6.8
30	---	---	---	---	---	---	---	---	---	---	3.9	6.7
31	---	---	---	---	---	---	---	---	---	---	4.3	---
TOTAL	---	---	---	---	---	---	---	---	---	---	172.9	174.7
MEAN	---	---	---	---	---	---	---	---	---	---	5.58	5.82
MAX	---	---	---	---	---	---	---	---	---	---	8.2	6.9
MIN	---	---	---	---	---	---	---	---	---	---	3.9	4.9
AC-FT	---	---	---	---	---	---	---	---	---	---	343	347

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 13316535 JOHN DAY CREEK NR MOUTH NR LUCILLE ID SOURCE AGENCY USGS STATE 16 COUNTY 049

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DD #1

Discharge, cubic feet per second

WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.4	6.2	6.2	6.2	7.5	7.5	13	44	22	10	7.2
2	6.6	6.4	6.2	e6.2	6.5	7.4	7.9	13	43	21	10	7.1
3	6.7	6.3	6.2	e6.4	6.4	7.3	10	13	46	21	9.6	7.1
4	6.7	6.3	6.2	e6.4	6.4	6.9	8.4	13	44	21	8.9	7.1
5	6.8	6.2	6.1	e6.4	6.4	7.1	7.9	14	43	24	8.9	7.3
6	6.8	6.1	6.6	e6.4	6.4	7.3	8.5	18	44	23	9.6	8.2
7	6.7	6.1	6.4	6.4	6.4	6.9	10	16	45	21	8.9	8.5
8	6.7	6.2	6.0	6.4	6.5	6.9	8.6	15	43	20	8.6	8.8
9	6.7	6.3	6.0	6.4	6.9	7.2	8.5	15	41	20	8.3	8.8
10	6.6	6.3	6.4	6.9	6.7	6.9	8.5	15	40	18	7.8	9.2
11	6.5	6.3	6.0	6.8	6.6	6.7	8.8	17	38	17	7.8	9.8
12	6.4	6.9	5.9	6.5	6.6	6.7	10	19	37	17	8.6	9.5
13	6.5	6.7	5.9	6.4	7.0	6.7	12	25	36	16	9.6	9.2
14	6.5	6.2	5.8	6.8	6.6	6.8	13	25	37	16	9.3	8.9
15	6.5	5.9	6.1	7.2	6.7	6.7	13	25	36	15	8.3	8.7
16	6.6	6.1	6.1	6.6	6.5	6.6	13	29	36	16	8.0	8.6
17	6.5	6.0	6.0	6.5	6.5	6.6	14	35	41	15	7.8	8.7
18	6.5	6.0	6.1	6.2	6.5	6.7	15	27	46	14	7.7	9.7
19	6.4	6.1	6.0	6.6	6.4	6.9	13	26	39	14	7.7	9.4
20	6.4	6.2	6.1	6.6	6.5	7.1	14	25	36	13	7.8	9.3
21	6.4	6.1	6.1	6.4	6.6	7.9	17	26	33	13	7.8	8.8
22	6.4	6.1	6.3	6.4	6.5	7.7	15	28	30	13	7.7	8.6
23	6.4	6.2	6.3	6.4	6.5	7.8	15	30	28	12	7.7	8.5
24	6.4	6.3	6.2	6.4	6.5	7.4	14	32	27	12	7.6	8.3
25	6.4	6.2	e6.0	6.4	6.5	7.4	14	31	26	11	7.5	8.2
26	6.4	6.1	e6.0	6.4	6.6	8.2	13	34	29	11	7.6	8.2
27	6.3	6.2	e6.0	6.5	6.6	8.3	13	38	32	11	7.3	10
28	6.2	6.3	e6.0	6.7	6.8	7.5	13	38	27	11	7.2	8.8
29	6.2	6.2	e5.8	6.7	7.1	7.5	15	47	27	11	7.1	8.5
30	6.3	6.2	4.4	6.6	---	7.5	14	38	25	11	7.2	8.3
31	6.3	---	5.8	6.4	---	7.4	---	36	---	11	7.4	---
TOTAL	201.4	186.9	187.2	201.6	190.4	223.5	354.6	776	1099	491	255.3	257.3
MEAN	6.50	6.23	6.04	6.50	6.57	7.21	11.8	25.0	36.6	15.8	8.24	8.58
MAX	6.8	6.9	6.6	7.2	7.1	8.3	17	47	46	24	10	10
MIN	6.2	5.9	4.4	6.2	6.2	6.6	7.5	13	25	11	7.1	7.1
AC-FT	399	371	371	400	378	443	703	1540	2180	974	506	510

e Estimated