

**State of Idaho
Department of Water Resources
Water District 604**

Meas. No. 3
Comp. by.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by

Date Aug 15, 19 88 Party R. Williams W. McPherson
 Width Area Vel. G. H. Disch.
 Method No. secs. G. H. change. in hrs. Susp.
 Method coef. Hor. angle coef. Susp. coef. Meter No.
 Type of meter Date rated Tag checked
 Meter ft. above bottom of wt. Spin before meas. after
 Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	HM	Chart	Outside	No. Yes. Time
					<u>1.50</u>	<u>Samples Collected</u>
					<u>1.50</u>	No. Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>SEDIMENT SAMPLES</u>
						No. Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>BIOLOGICAL SAMPLES</u>
						Yes. Time
						No. Type
Weighted M.G.H.						
G. H. correction						
Correct M.G.H.						

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

GPS LAT\LONG

G.H. of zero flow ft. Sheet No. of sheets

**State of Idaho
Department of Water Resources
Water District**

Meas. No. 4
Comp. by.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by

Date 1005-23, 19 06 Party
 Width Area Vel. G. H. Disch.
 Method No. secs. G. H. change. in hrs. Susp.
 Method coef. Hor. angle coef. Susp. coef. Meter No.
 Type of meter Date rated Tag checked
 Meter ft. above bottom of wt. Spin before meas. after
 Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	HM	Chart	Outside	No Yes. Time
<u>2.40</u>						<u>Samples Collected</u>
<u>2.50</u>						No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>SEDIMENT SAMPLES</u>
						No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>BIOLOGICAL SAMPLES</u>
Weighted M.G.H.						Yes. Time
G. H. correction						No Type
Correct M.G.H.						

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

GPS LAT\LONG

G.H. of zero flow ft. Sheet No. of sheets

State of Idaho
Department of Water Resources
Water District

Meas. No. 2
 Comp. by.

Sta. No. **DISCHARGE MEASUREMENT NOTES** Checked by

Date AUG 6, 19 92 Party R. K. ... R. J. ...
 Width Area Vel. G. H. Disch.
 Method No. secs. G. H. change. in hrs. Susp.
 Method coef. Hor. angle coef. Susp. coef. Meter No.
 Type of meter Date rated Tag checked
 Meter ft. above bottom of wt. Spin before meas. after
 Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	HM	Chart	Outside	No Yes. Time
<u>1:30</u>					<u>1.72</u>	<u>Samples Collected</u>
<u>3:05</u>					<u>1.72</u>	No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>SEDIMENT SAMPLES</u>
						No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>BIOLOGICAL SAMPLES</u>
Weighted M.G.H.						Yes. Time
G. H. correction						No Type
Correct M.G.H.						

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

GPS LAT\LONG

G.H. of zero flow ft. Sheet No. of sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at—

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge	
							At point	Mean in ver- tical				
L 90	5.5											
	6.5	1.0	1.50				.26			1.50	.120	.85
	7.5	1.0	1.70				.47			1.70	.132	
	8.5	1.0	1.80				.45			1.80	.136	
	9.5	1.25	1.10				.87			1.38	.225	.90
	11.0	1.75	1.10				.52			1.43	.106	.92
	13.0	2.0	1.50				.66			3.00	1.18	.94
	15.0	2.0	1.60				.76			3.20	2.43	
	17.0	2.0	1.70				.68			3.40	2.27	.96
	19.0	2.0	1.60				.74			3.20	2.37	.97
	21.0	1.5	1.40				.46			2.10	.77	.98
	22.0	1.0	1.30				.32			1.30	.42	.99
	23.0	1.0	1.20				.39			1.20	.47	
	24.0	1.0	1.90				.41			1.90	.57	
0	25.0	1.0	1.80				.52			1.80	.42	1.00
	26.0	1.5	1.10				.24			1.10	.22	
	27.0	2.5	1.60				0			1.50	0	
	28.0	2.5	1.50				.27			1.75	.25	.99
	29.0	2.0	1.60				.10			1.20	.15	.98
	35.0	2.0	.40				0			1.80	0	.97
	32.0	1.5	1.60				0			1.50	0	.96
	38.0	1.0	1.80				0			1.80	0	.94
	33.0	1.0	1.20				0			1.10	0	.94
100	42.0											.92
												.90
												.85
												.80
												.75
												.70
												.65
												.60
												.55
												.50
												.45
												.40
												.35
												.30
												.25
												.20
												.15
												.10
												.05
												.00

14.84 CFS

RES FLOW 45 CFS

**State of Idaho
Department of Water Resources
Water District 67A**

Meas. No.
Comp. by.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by

Date Aug 24, 1986 Party W.D. 67A
 Width Area Vel. G. H. Disch.
 Method No. secs. G. H. change. in hrs. Susp.
 Method coef. Hor. angle coef. Susp. coef. Meter No.
 Type of meter Date rated Tag checked
 Meter ft. above bottom of wt. Spin before meas. after
 Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	HM	Chart	Outside	No Yes. Time
<u>3:00</u>					<u>6.71</u>	<u>Samples Collected</u>
<u>4:00</u>					<u>6.71</u>	No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>SEDIMENT SAMPLES</u>
						No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>BIOLOGICAL SAMPLES</u>
						Yes. Time
						No Type

Weighted M.G.H.
 G. H. correction
 Correct M.G.H.
 Check bar. chain found changed to at
 Wading, cable, ice, boat, upstr., downstr., side bridge. feet, mile, above, below gage.
 Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:
 Flow
 Cross section
 Control
 Gage operating Weather
 Intake/Orifice cleaned Air °C@ Water °C@
 Record removed Extreme Indicator: Max. Min.
 Manometer N₂ Pressure Tank Feed Bbl rate per min.
 CSG checked Stick reading
 Observer
 HWM outside, in well
 Remarks
 GPS LAT\LONG
 G.H. of zero flow ft. Sheet No. of sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at-

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge
							At point	Mean in ver- tical			
250	5.5										
	6.0	1.25	.4				.20			.5	.10
	7.0	1.0	.6				.31			.6	.13
	8.0	1.0	.6				.60			.6	.36
	9.0	1.0	.9				.46			.9	.41
	10.0	1.0	1.0				.52			1.0	.52
	11.0	1.0	1.2				.58			1.2	.70
	20	1.0	1.3				.64			1.3	.81
	100	1.0	1.3				.67			1.3	.87
	150	1.0	1.3				.82			1.3	.97
	150	1.0	1.4				.82			1.4	1.15
	160	1.0	1.5				.80			1.5	1.35
	170	1.0	1.2				.73			1.2	1.12
	180	1.0	1.1				.63			1.1	.98
0	190	1.0	1.5				.82			1.5	1.23
	200	1.0	1.5				.82			1.5	.78
	210	1.0	1.5				.80			1.5	.70
	220	2.0	1.35				.52			1.35	.70
	230	2.0	1.10				.40			1.10	.44
	240	1.0	.90				.45			.9	.41
	250	1.0	.70				.41			.7	.27
	260	1.0	.4				.14			.4	.06
	280	2.0	.2				.08			.4	.03
	300	2.0	.4				0			.8	0
	32.0	1.5	.4				.04			.6	.02
	23.0	1.0	.4				.12			.4	.05
	34.0	1.0	.4				.03			.4	.05
	35.0	1.0	.4				0			.4	0
	36.0	2.5	.4				0			1.00	0
	40.0	2.5	.6				0			1.50	0
River	41.0									CFS / 14.53	
										RES FLOW - 45 CFS	

.0 .10 .20 .30 .40 .50 .60 .70 .75

**State of Idaho
Department of Water Resources
Water District _____**

Meas. No.
Comp. by.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by

Date Nov 21, 1972 Party

Width Area Vel. G. H. Disch.

Method No. secs. G. H. change. in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	HM	Chart	Outside	No Yes. Time
10:00					2.25	<u>Samples Collected</u>
11:00					2.25	No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>SEDIMENT SAMPLES</u>
						No Yes. Time
						<u>Method Used</u>
						EDI EWI Other.
						<u>BIOLOGICAL SAMPLES</u>
						Yes. Time
						No Type
Weighted M.G.H.						
G. H. correction						
Correct M.G.H.						

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

GPS LAT\LONG

G.H. of zero flow ft. Sheet No. of sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at—

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge
							At point	Mean in ver- tical			
280	3.4										.80
	4.0	1.1	.4				.40			.44	.85
	5.0	1.0	.5				.34			.35	
	6.0	1.5	.6				.34			.50	
	7.0	2.0	1.1				.30			.60	.90
	8.0	2.0	1.7				.26			.72	.92
	10.0	2.0	1.8				.21			.86	.94
	12.0	2.0	1.9				.22			.88	
	16.0	2.0	2.0				.18			.80	.96
	18.0	2.0	2.0				.17			.72	.97
	20.0	2.0	1.4				.22			.68	.98
	22.0	2.0	1.5				.110			.30	.99
	24.0	2.0	1.1				.18			.22	
	26.0	2.0	1.1				1.02			.22	
0	28.0	2.0	1.0				.17			.20	1.00
	30.0	2.0	1.0				.17			.20	
	32.0	2.0	1.0				.120			.20	
	34.0	2.0	1.0				.120			.20	.99
	36.0	2.0	1.1				.20			.28	.98
	38.0	2.0	1.2				.20			.24	.97
	40.0	2.0	1.4				.20			.28	.96
Row	46.0									.40	.94
											.92
											.90
											.85
											.80

.0 .10 .20 .30 .40 .50 .60 .70 .75

RECEIVED

AUG 27 1996

WATERMASTER DELIVERY RECORD
WATER DISTRICT NO. 67-A

WATER RESOURCES
WESTERN REGION

SITE NUMBER	WATER MEASUREMENT CUBIC FEET-SECOND	COMMENTS	MAXIMUM FLOW
RIVER ²		CONTRACTABLE MEASURING HEADGAGE DEVICE	
D1 ³ HUEY		NOT USABLE AT THIS TIME	X
D2 RICHARDSON		YES NONE	9.19 CFS
D3 INLET CANAL		YES N/A	X
D4 AMERICA LINDSEY		TUBE RETURNABLE INSTALLED	13.82 CFS
R1 ⁴ MAIN CANAL		N/A N/A	X
D5 INDIAN VALLEY GRAYS CREEK		YES MEASUREMENT BOX IN DITCH	27.55 CFS
D6 STEWARD		YES NONE	7.12 CFS
D7 MORITZ		YES NONE	6.51 CFS
R2 ⁵ LITTLE		N/A N/A	X
D8 COVE SOUTH		BACKHOLE ABOVE DITCH	No MEASUREMENT
D9 COVE NORTH		YES DITCH	4.22 CFS
D10 UNDER WOOD		YES NONE	MEASUREMENT
D11 KICKY-WILKERSON		YES PARSHALL	12 CFS
D12 SCHWENK FEEDER		YES PARSHALL	16.4 CFS
D13 ALLISON		YES RETURNABLE DITCH	8.55 CFS
D14 WOOD/MORNING		NOT USABLE AT THIS TIME	
D15 DEWART/MORNING/COX		YES NONE	5.5 CFS

OTHERS? - List & explain in field notes on back of this form.

TOTAL NATURAL FLOW AVAILABLE (RIVER + D1) = AUG-6-15-23-26 cfs

TOTAL RESERVOIR WATER ADDED TO RIVER (R1 + R2) = AUG-6-15-23-24 cfs

LAST OF RIVER FLOW AS GAGE COVER STARTS AT 1.70
READING FOR AUG 25-24 TAKEN FROM SLIGHTLY DIFFERENT LOCATION
TO TEST ACCURACY OF MEASURING SKILL

²River monitoring point at abandoned USGS gage station near #1 ditch.

³Indicates diversion #1 on river, the most upstream diversion ditch.
Others in D series are the diversion ditches as continue downstream from D1.

⁴First input of reservoir water to river.

⁵Second input of reservoir water to river.

YOU MAY KEEP RIVER READINGS AND I HAVE COPIES
PLUS IF YOU WANT IT RESERVOIR FLOW FOR THE MEASURE
MADE BY TIM LUKE WAS 37.5 CFS
7.23.96

WATERMASTER FIELD NOTES

PLEASE USE THIS LIST OF DITCHES TO IDENTIFY
PROPER NAMES OF DITCHES

FLOW OF DITCHES - USED TO DETERMINE THE MAXIMUM
AMOUNT OF WATER USED BY THESE DITCHES AS YOU
KNOW LEVELS ARE UP AND DOWN DURING SEASON

OGLE NORTH & SOUTH DITCHES WERE NOT MEASURED BECAUSE
DIVERSION NOT PUT IN THIS YEAR UNTIL MIDDLE OF AUGUST.

UNDERWOOD DITCH NOT MEASURED AS IT IS USED
ONLY TWO OR THREE TIMES DURING SEASON FOR A STAKE RIGHT
OTHER DIVERSIONS (PUMPS ETC.) - Indicate measured or estimated flow being
diverted and location of diversion point at the water source

OGLE SOUTH DITCH = HE BACKLOG AROUND THIS

HEADGATE BECAUSE BEAVERS LEFT BUILDING DAMS AT HEADGATE
I'VE ASK HIM TO PUT WATER BACK THROUGH HEADGATE
BUT DELBERT OGLE IS COMPLETELY UNCOOPERATIVE
IT IS TOUGH HAVING A PERSON LIKE THIS RIGHT IN THE
FOLLOW-UP ACTION NEEDED? IF YES, SPECIFY MIDDLE OF SYSTEM.

I LISTED DITCHES AS CONTROLLABLE RATHER
THAN LOCKABLE AS NONE OF THEM HAVE DAMS
TO BE LOCKED COULD BE INSTALLED IF NECESSARY

MILEAGE _____

Date _____

Richard Kretten

Watermaster's
signature

RICHARD KRETTEIN

*PLEASE NOTE PROPER SPELLING
OF NAME.