

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16692

Exam Date: 6/14/2019

1. Current Owner:

MARSHALL D OGDEN
AND
JOLENE OGDEN
HC 67 BOX 550 CLAYTON ID 83227

2. Accompanied by: Marshall Ogden

Phone No: 208-838-2964

Address: same as above

Relationship to permit Holder: Permit holder

3. **SOURCE:**
FRENCH CREEK**Tributary**
SALMON RIVER**Method of Determination:** During field exam, inspected both PODs on French Creek.**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis
72-7265	Ground water	Domestic	Decree
72-16691	French Creek	Irrigation	Decree

Comments: Right 72-7265 is a domestic right which was used for trailer/RV park in the past. Right 72-16691 is the original water right which irrigates the other 13.0 acres within the 27.7 acre POU.

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

Water Right No.	Source	Purpose of Use	Basis
72-16691	French Creek- Lower POD	Irrigation	Decree
72-16691, 72-16690, 72-16966, 72-4161B	French Creek- Upper POD	Irrigation	Decree

Comments: The other rights diverted from French Creek all have 1886 priority dates. Right 72-16691 is owned by the Ogdens.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

FRENCH CREEK SE¼ NE¼ SE¼, Sec. 29, Twp 11N, Rge 17E, B.M. CUSTER County
FRENCH CREEK NW¼ NE¼ NE¼, Sec. 32, Twp 11N, Rge 17E, B.M. CUSTER County

Method of Determination: ArcMap aerial imagery and site visit verification.

2. PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11N	17E	28							2.6 L2			2.6							5.2
11N	17E	29				8.5 L10									14.0				22.5

Right Acre Limit: 14.7

Total Acres: 27.7

Method of Determination: Inspection of irrigated acres during field exam and review of ArcMap aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ X 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.

☒ X☒ X Aerial Photo Attached (required for irrigation of 10+ acres).☒ X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Site Tag#	Hp	Diversion name	Pump Make	Pump Serial No. or Discharge Size
Lower Diversion	NA	NA	NA	NA	NA
Upper Diversion	A00018000	NA	FCHC2	NA	NA

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flume	Adjustable Ramp	Nuway	----	----	1"	----
Flowmeter	Magnetic	Seametrics	AG7000	NA	8"	----

2. Measurements: The lower POD was diverting water at the time of the exam. It is measured with a Nuway 12" adjustable ramp flume which was reading a flow rate of 0.62 cfs at the time of the exam (see attached photo). The entire flow from that POD goes to the Ogden property, so it was a sufficient rate to cover the permitted rate of 0.29 cfs on this permit and the 0.29 cfs under right 72-16691.

The pipe from the upper POD was diverting water to the Ogden property as well as to the ground across Highway 75 (different owner). However, the flowmeter reads flow for all parties diverting through the pipe, so it is not possible to determine what flow is being delivered to each water user in the pipeline.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: See the attached photo for the determination of the flow rate through the lower POD.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: NA- surface water source.

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: NA

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 72-16692 was conducted on June 14, 2019 with permit holder Marshall Ogden present. This permit provides irrigation water to 14.7 acres within a 27.7 acre POU, while right 72-16691 supplies water to the other 13.0 acres.

Water is diverted from French Creek in two locations. The upper POD is located approximately 0.7 mile up French Creek from Highway 75 and is diverted into a pipeline which supplies irrigation water to the Ogdens and three other water users. There is a flowmeter in the pipeline on the Ogden's property, but it is located upstream of any of the water users' diversion valves, so it only measures the total flow of the pipeline. Below the flowmeter, the Ogden's water is piped off at a valve where it runs into a mainline to supply the hand lines which irrigate most of their property.

The lower POD is located about 0.3 mile up French Creek from the highway, and is a slide gate which diverts water into an open ditch. The measuring device, an adjustable ramp flume, is located just downstream and seems to be well placed and functioning properly. This water is dispersed to the pasture ground through small open ditches.

On the day of the exam, Mr. Ogden was running a sprinkler line and diverting from the lower POD into his open ditch. I checked the flow at the flume, and it was reading 0.62 cfs, which was sufficient to satisfy the flow rate of this permit (0.29 cfs) and that of the existing French Creek water right (0.29 cfs). Therefore, I recommend licensing at 0.29 cfs. Determining the irrigated acreage on the property was difficult, as the aerial imagery we have on ArcMap didn't appear to show the ground to be very well irrigated. Mr. Ogden explained that some portions of the ground are watered as irrigated pasture and other parts are watered infrequently in order to keep them green enough to prevent the start and spread of wildfires. After viewing the ground and the irrigation set-up, I was satisfied that there are 27-28 acres that are irrigated at least occasionally.

Both PODs have functioning measuring devices and lockable controlling works as the slide headgate at the lower POD and the screw type headgate at the head of the pipeline both could be easily locked shut. Mr. Ogden told me that the Idaho Department of Fish and Game had never required any sort of fish screening for his diversions, but that condition should remain in the event that it is required in the future.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
IRRIGATION	04/01 to 10/31	0.29 CFS	

Totals: 0.29 CFS

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

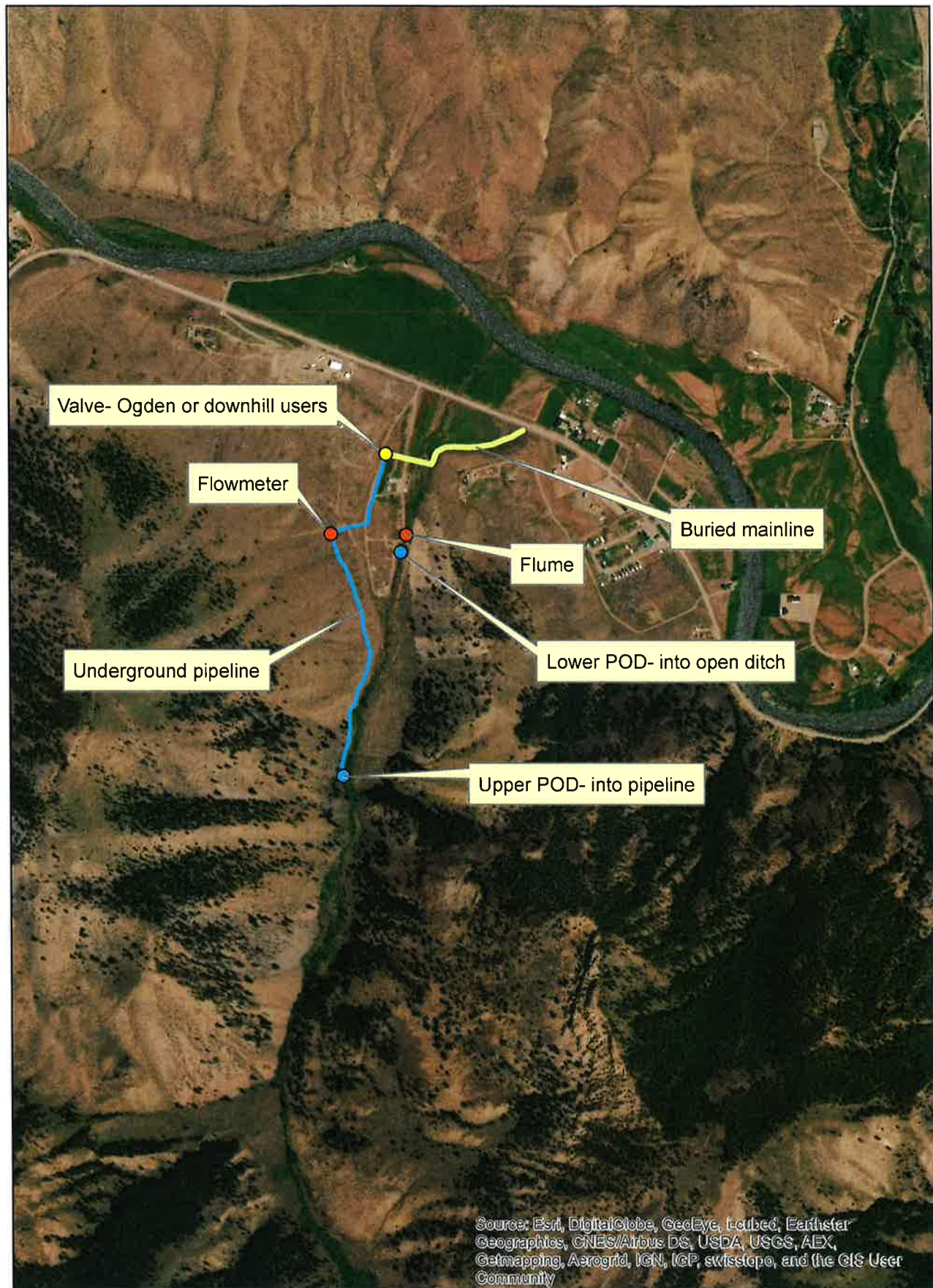
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Field Examiner's Name  Date 6-28-19
Jim Bitzenburg - Senior Water Resource Agent, Southern Region

Reviewer _____ Date _____

72 .6692 System Diagram

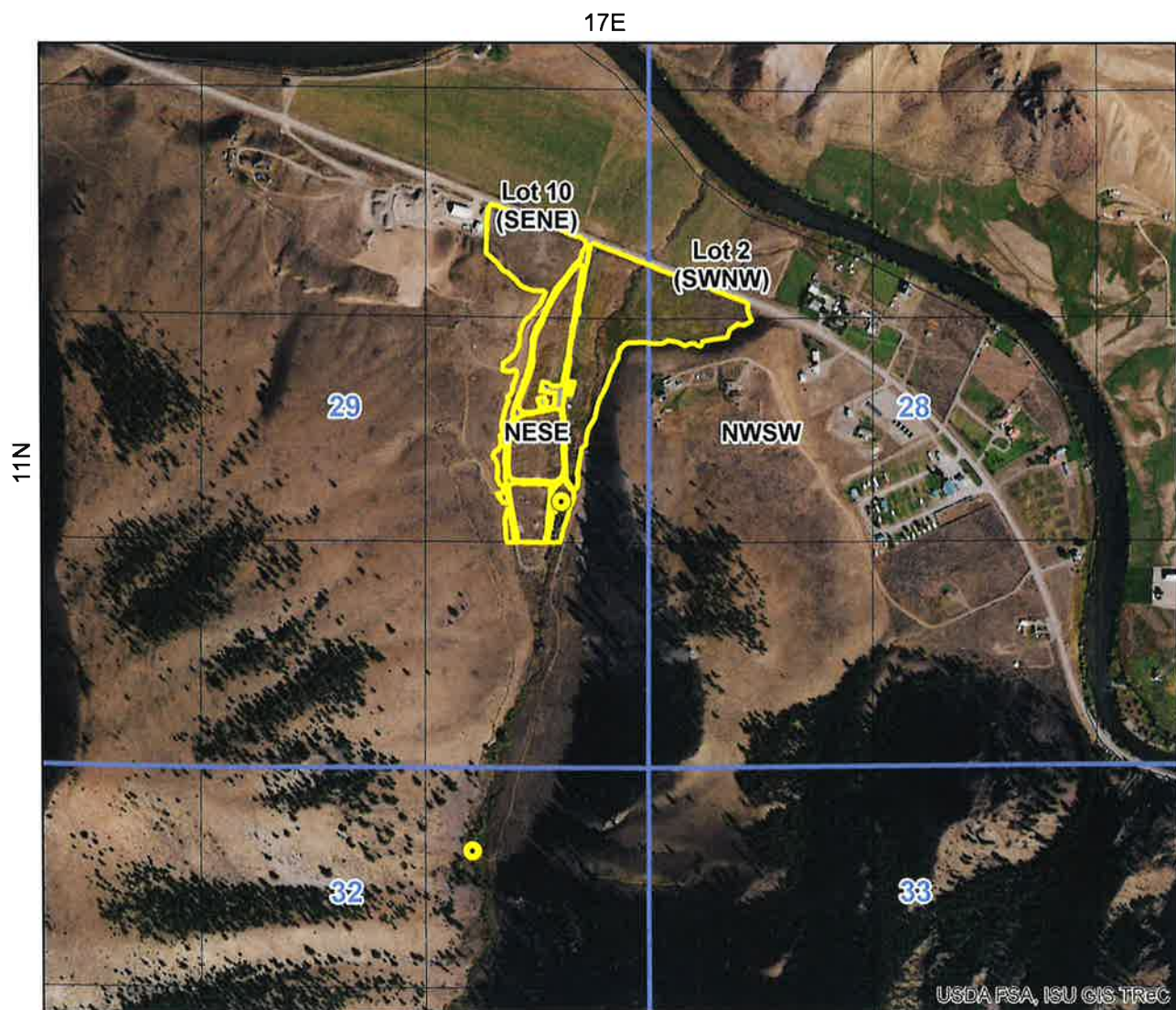


0 0.125 0.25 0.5 Miles



State of Idaho
Department of Water Resources

72-16692 Place of Use, Points of Diversion



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.125 0.25 0.5 Miles





Lower POD- French Creek through left headgate, Ogden through right.

Upper POD- water users through headgate, French Creek over check.



72-16692 Ogden



Photos showing areas of the POU that are irrigated less often.



72-16692 Ogden



Views of the irrigated pasture on the Ogden property.



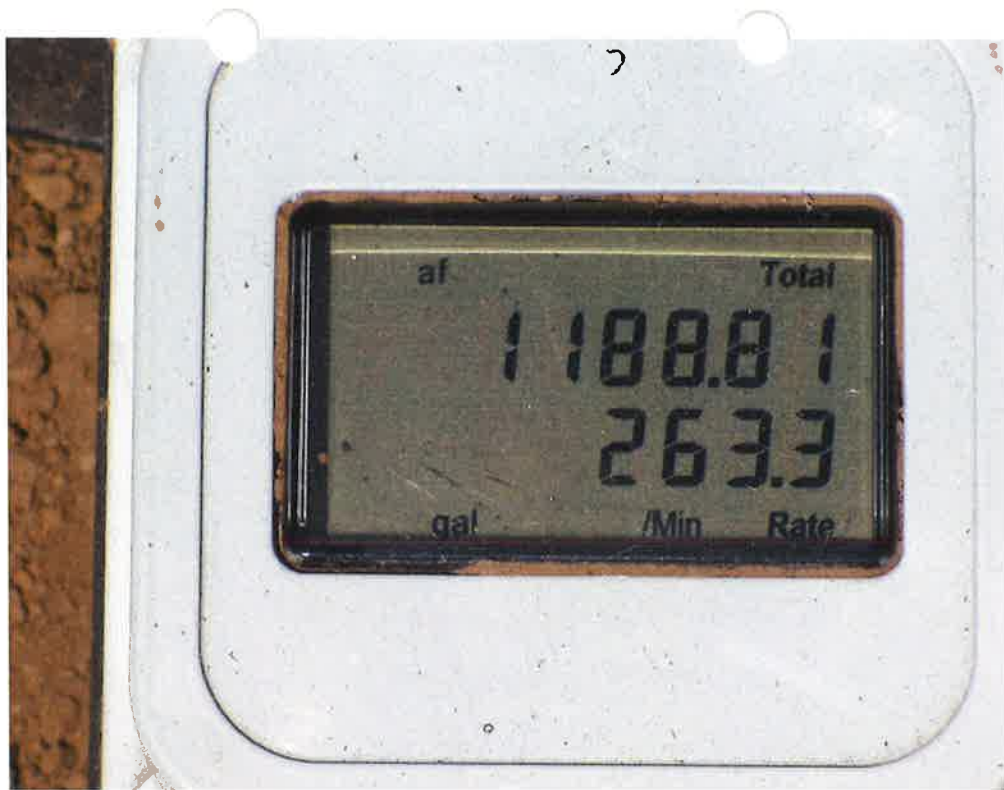
72-16692 Ogden



Irrigation on the Ogden property is accomplished with hand lines and flood irrigation.



72-16692 Ogden

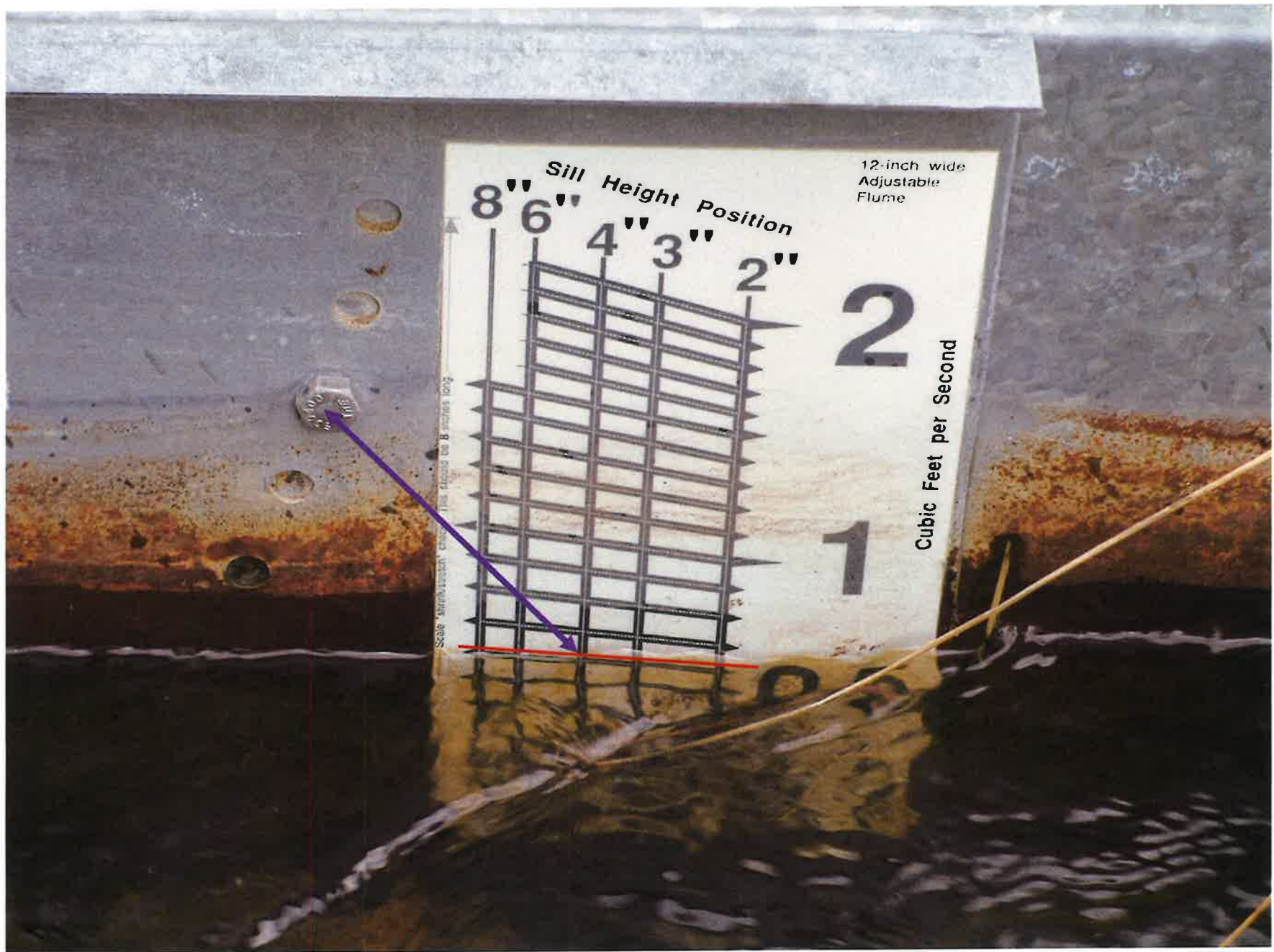


Upper POD measuring device- Seametrics AG-7000 flowmeter

Lower POD measuring device- Nuway adjustable ramp flume



72-16692 Ogden



Flow rate of flume is read by matching the ramp setting (in this case, the middle hole, or 4") with the water level and following that line (the red line) parallel to the cfs reading at the right hand side. This flow is 0.62 cfs.