

## Fish Passage Evaluation Field Log

Stream: Sfk Deer Cr check dams

Road # n/a Passage ID: \_\_\_\_\_

Coordinates: Includes 16 rock check dams.

Coordinates for lowest and highest given but all are listed at the end of this data sheet.

Lowest: Lat 44° 10.944 Long 119° 20.065

Highest: Lat 44° 10.594 Long 119° 19.980

Date: July 19, 2016 Crew: Neal

### General

Type: Culvert | Irrigation | **Other Dam** | Natural

Rating: **RED** | GREY | GREEN

Fish bearing: No | below only | **above** | potentially **Impassable** | adults only | juveniles | meets criteria

Water Velocity:

Above: 15.4 ft / 19.34 seconds = 0.8 fps

Below: 13.5 ft / 12.22 seconds = 1.1 fps

Stream Substrate size: 0.5 mm (very fine ash with little to no gravel seen.)

Stream Slope

Above: rise 0.16 ft / run 17.0 ft = 0.9 %

Below: rise 0.29 ft / run 23.0 ft = 1.26 %

### Bankfull Width/Active Channel Width

Bankfull Width : varies from 0.9 ft to 100 ft

Bankfull cannot be measured because stream is ponded behind each check dam and much wider than it should be. Stream bankfull width should be about 2.8 ft through this reach.

**Road Width:** n/a ft

No roads cross any of these check dams

**Check dam Width:** Each check dam appears to be about 40 ft wide and keyed into each bank about 10 ft

## Wildlife

Beaver Presence: Yes | **No** No beaver have used the ponds or built dams across the rock dams

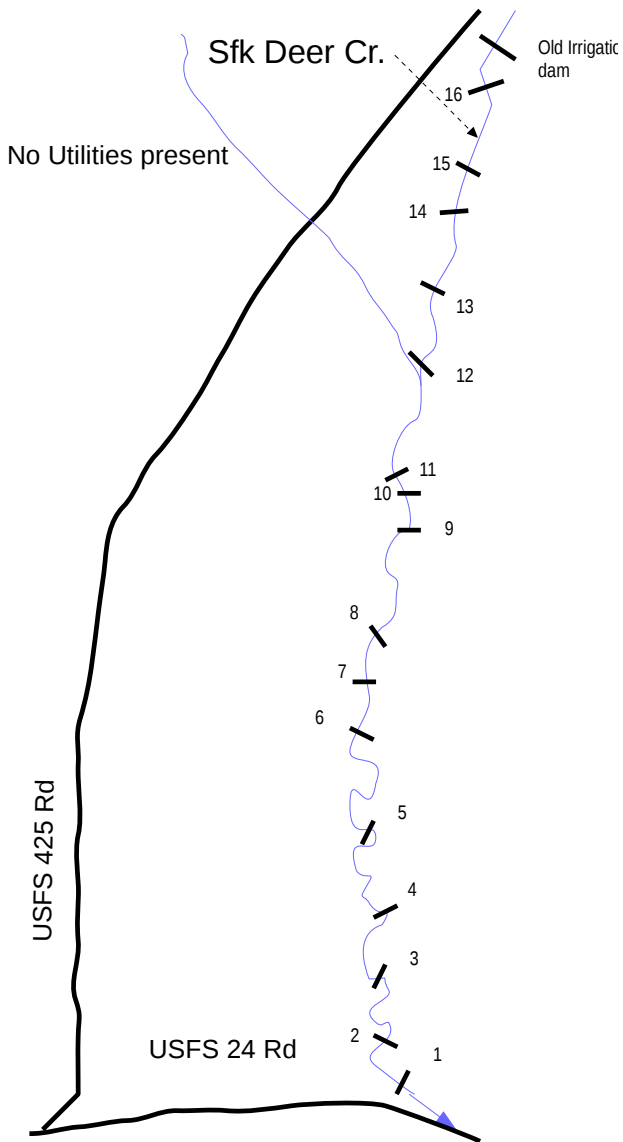
Each dam is listed below starting with # 1 at the downstream most to # 16 at the upstream end. There is also a metal flow measuring device right above the uppermost dam.

Dam Number	Coordinates		Passage status
1	N 44° 10.944	W 119° 20.065	passable
2	N 44° 10.938	W 119° 20.041	passable
3	N 44° 10.906	W 119° 20.036	passable
4	N 44° 10.886	W 119° 20.030	passable
5	N 44° 10.846	W 119° 20.002	impassable
6	N 44° 10.821	W 119° 19.975	impassable
7	N 44° 10.802	W 119° 19.980	impassable
8	N 44° 10.790	W 119° 19.980	passable
9	N 44° 10.799	W 119° 19.990	Impassable
10	N 44° 10.740	W 119° 19.995	Impassable
11	N 44° 10.724	W 119° 19.986	Impassable
12	N 44° 10.697	W 119° 19.987	Impassable
13	N 44° 10.665	W 119° 19.973	Impassable
14	N 44° 10.634	W 119° 19.963	Impassable
15	N 44° 10.618	W 119° 19.972	Impassable

16	N 44° 10.594	W 119° 19.980	Impassable
Metal flow measuring device	N 44° 10.578	W 119° 19.969	passable

Notes: These check dams were installed in the 1970's to arrest channel incision and restore a severely degraded meadow. It was assumed the ponds behind them would fill with sediment within a few years and fish passage would be restored. Unfortunately the dams are porous to water, stopped all sediment flow and remain barriers to fish movement during all but the highest flows. Corrections need to be made in the form of sealing the face and the spillway of each impassable dam. Or the alternative of digging a new stream channel around them and using the excavated material to cover the dams. They are located in, and block access to, some of the best salmonid rearing habitat in the headwaters of Deer Creek.

## Sketch





*Sfk Deer Cr disappearing in check dam #14*



*Sfk Deer Cr check dam # 16*