

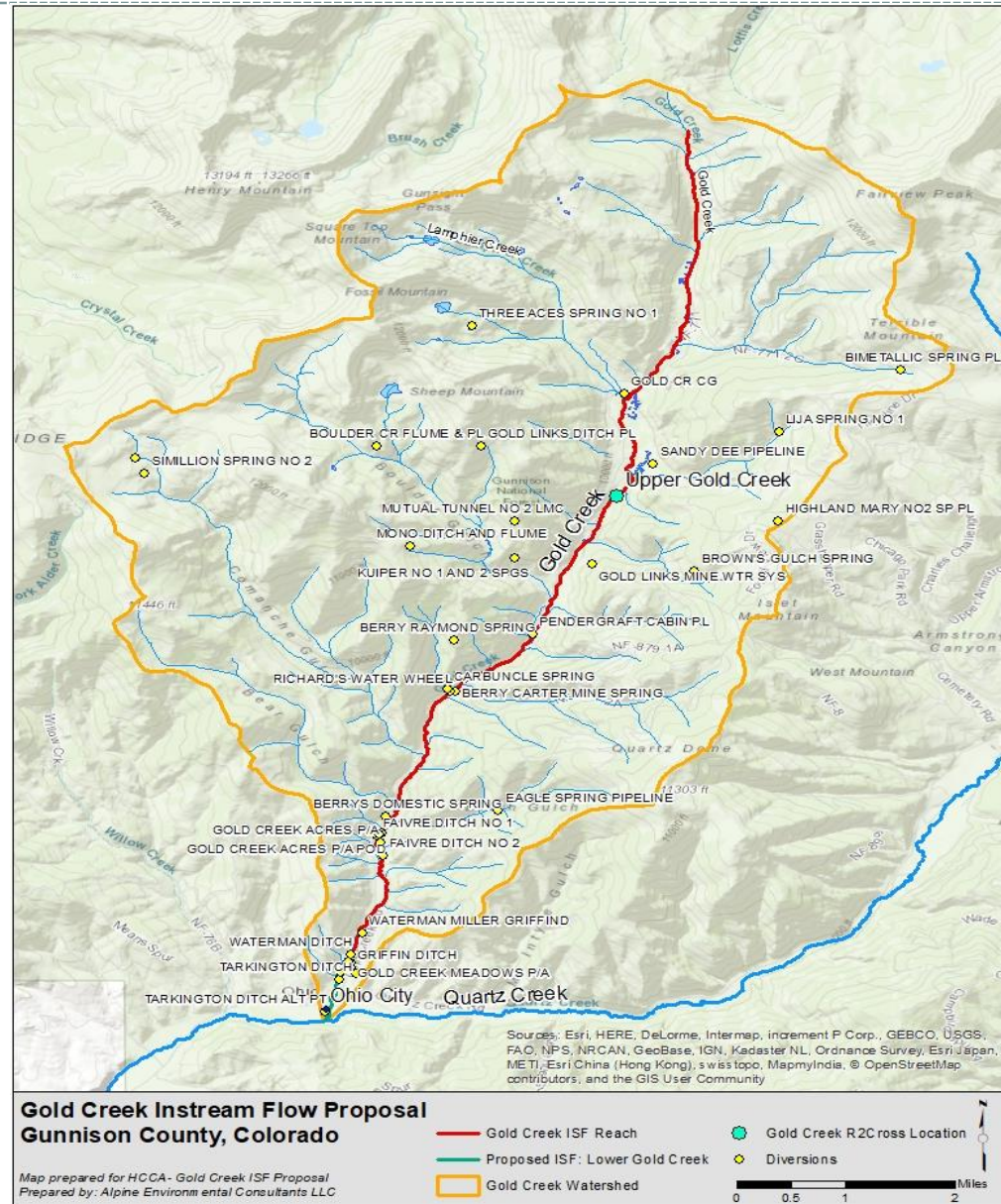
# 2018 Instream Flow Proposal



**HIGH COUNTRY CONSERVATION  
ADVOCATES**



# Water Division 4 Gold Creek

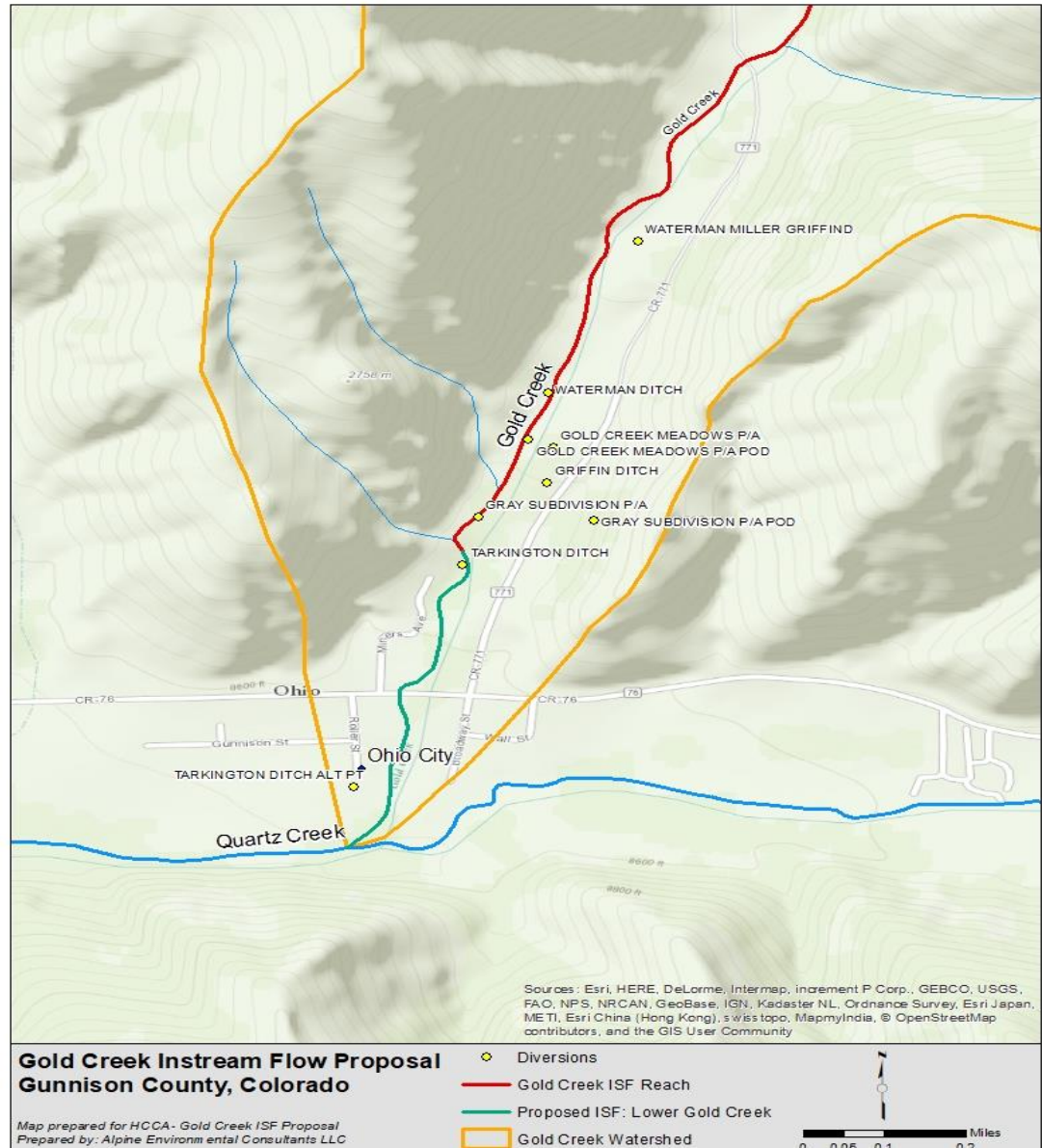


# Instream Flow Rights



- Proposing an increased summer instream flow on Upper Gold Creek and new winter and summer instream flow protections on Lower Gold Creek
  - ✦ Existing ISF right on Upper Gold Creek (7 cfs)
  - ✦ No ISF protection on lower Gold Creek from the Tarkington Ditch headgate to the confluence with Quartz Creek

# Lower Gold Creek





# Natural Environment

Fishery (brook trout)

Healthy riparian area featuring alders and willows

Willows and irrigated hay meadows



# Current R2CROSS Criteria



## Hydraulic Criteria

- 1 ft./sec Average Velocity
- 50% Wetted Perimeter
- Average Depth 1% of Top Width

## Flow Recommendations

- Flow recommendations meet 3 of 3 hydraulic criteria for summer, 2 of 3 for winter



# Proposed ISFs



Cross Section (Date)	Measured Discharge (cfs)	Bankfull Top Width <sup>1</sup> (ft)	Winter Flow Recommendation (cfs)	Summer Flow Recommendation (cfs)
Upper Gold Creek (10/4/17)	7.37	36.0	7.0 (no change to existing ISF right) <sup>2</sup>	11.0 (May 1 <sup>st</sup> - July 31 <sup>st</sup> )
Lower Gold Creek (N/A- relied on 10/4 cross section)	-	-	7.0 (Aug. 1 <sup>st</sup> - Apr. 31 <sup>st</sup> )	11.0, based on legal availability (May 1 <sup>st</sup> - July 31 <sup>st</sup> )

# Water Availability



## Physical

- No gage data available
- Used a combination of StreamStats and R2Cross to look at physical availability

# Water Availability

## Legal

- Diversions and springs on Upper Gold Creek
  - Berry Carter Mine Spring (2 cfs)
  - O'Banion Feeder Ditch (.5 cfs)
  - Faivre Ditch No. 2 (2 cfs)
  - Gold Links Mine System (2.23 cfs; 1 cfs)
  - Gold Links Ditch PL (.9 cfs)
  - Tarkington Ditch- (18 cfs)
- Significant diversion, Tarkington Ditch, on Lower Gold Creek



# Stakeholders

**US Forest  
Service**

**Colorado Parks &  
Wildlife**

**Gunnison County**

**Water rights  
owners**

**The Upper  
Gunnison River  
Water  
Conservancy  
District**

Instream Flow Reach	Upper Terminus	Lower Terminus	Total Length (miles)	Land Ownership	
				Private (%)	Public (%)
<b>Gold Creek (Appropriat ion Date 3/17/1980)</b>	Headwaters	Headgate Tarkington Ditch	9.84	Riparian Corridor 15%	Riparian Corridor 85% USFS
				Watershed Composition 16%	Watershed Composition 84% USFS
<b>Lower Gold Creek (No existing ISF)</b>	Headgate Tarkington Ditch	Confluence with Quartz Creek	0.47	Riparian Corridor 100%	Riparian Corridor 0% USFS
				Watershed Composition 16%	Watershed Composition 84% USFS

# Questions?



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