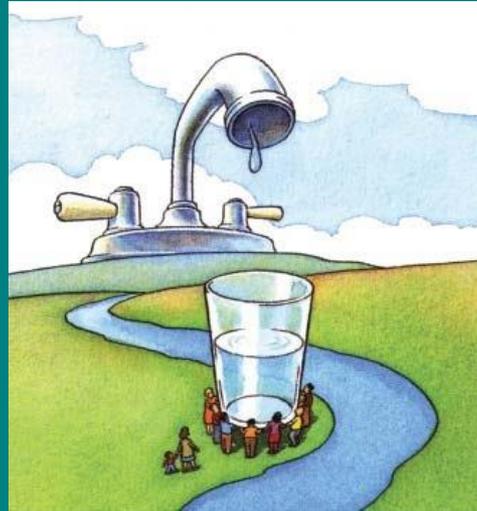
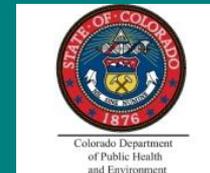


Source Water Protection Plan

City of Idaho Springs



Mark Williams
Source Water Specialist
Colorado Rural Water Association



Sign In

AGENDA

I. Welcome and Introductions

II. Developing a Source Water Protection Plan

- Review process of developing a plan and timeline
- Review of last month's meeting

III. Delineation of the Source Water Protection Area

IV. Inventory of Potential Contaminant Sources

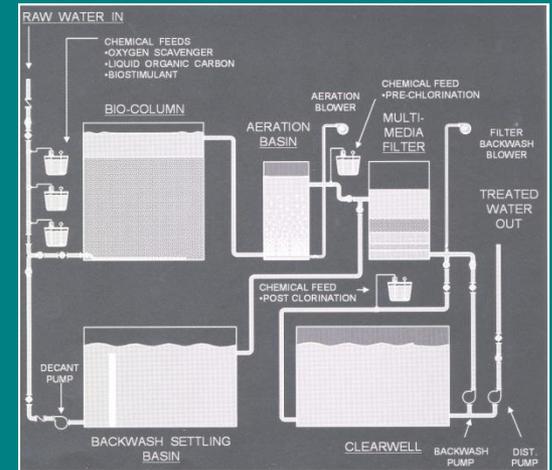
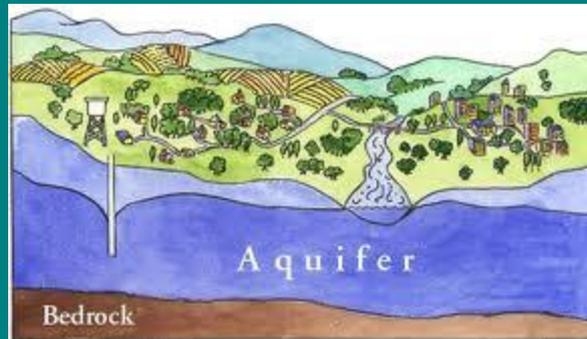
- Identify Issues of Concern
- SWAP Risk Assessment Matrix



V. Set next meeting date and agenda

Source Water Protection

A Multi-Barrier Approach
to provide safe drinking water



Steps and Timeline for Developing Idaho Spring's SWPP

June
2016

- 1st Stakeholders Meeting
- Form Steering Committee, Review State's Assessment, Delineate Source Water Protection Area

July 2016

- 2nd Stakeholders Meeting
- Inventory of Potential Contaminant Sources

Aug..
2016

- 3rd Stakeholders Meeting
- Develop Best Management Practices

Sept.
2016

- Write Draft Source Water Protection Plan

Oct.
2016

- 4th Stakeholders Meeting
- Review and Edit Draft Plan

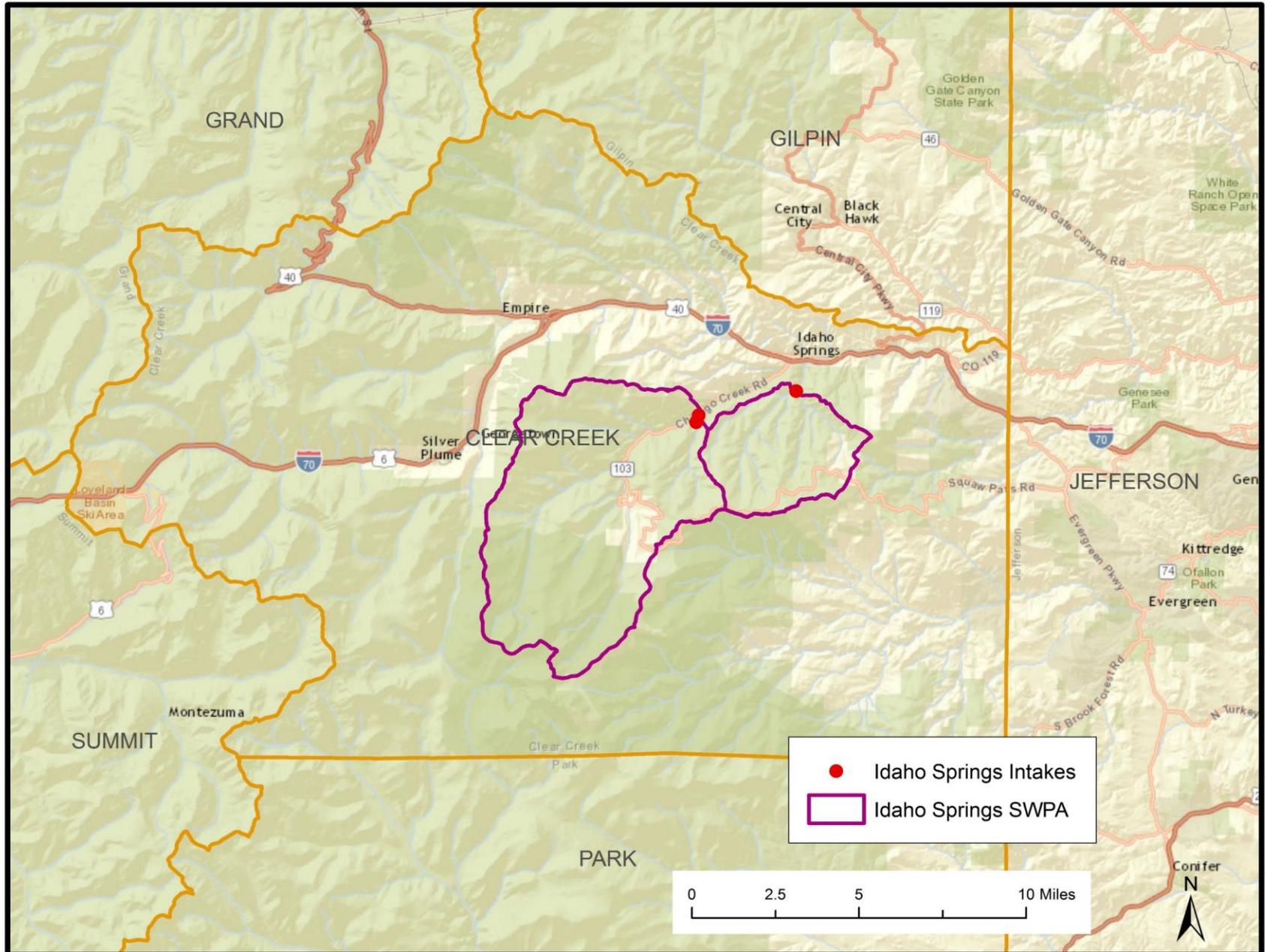
Nov.
2016

- 5th Stakeholders Meeting
- Steering Committee meeting to implement Final Plan

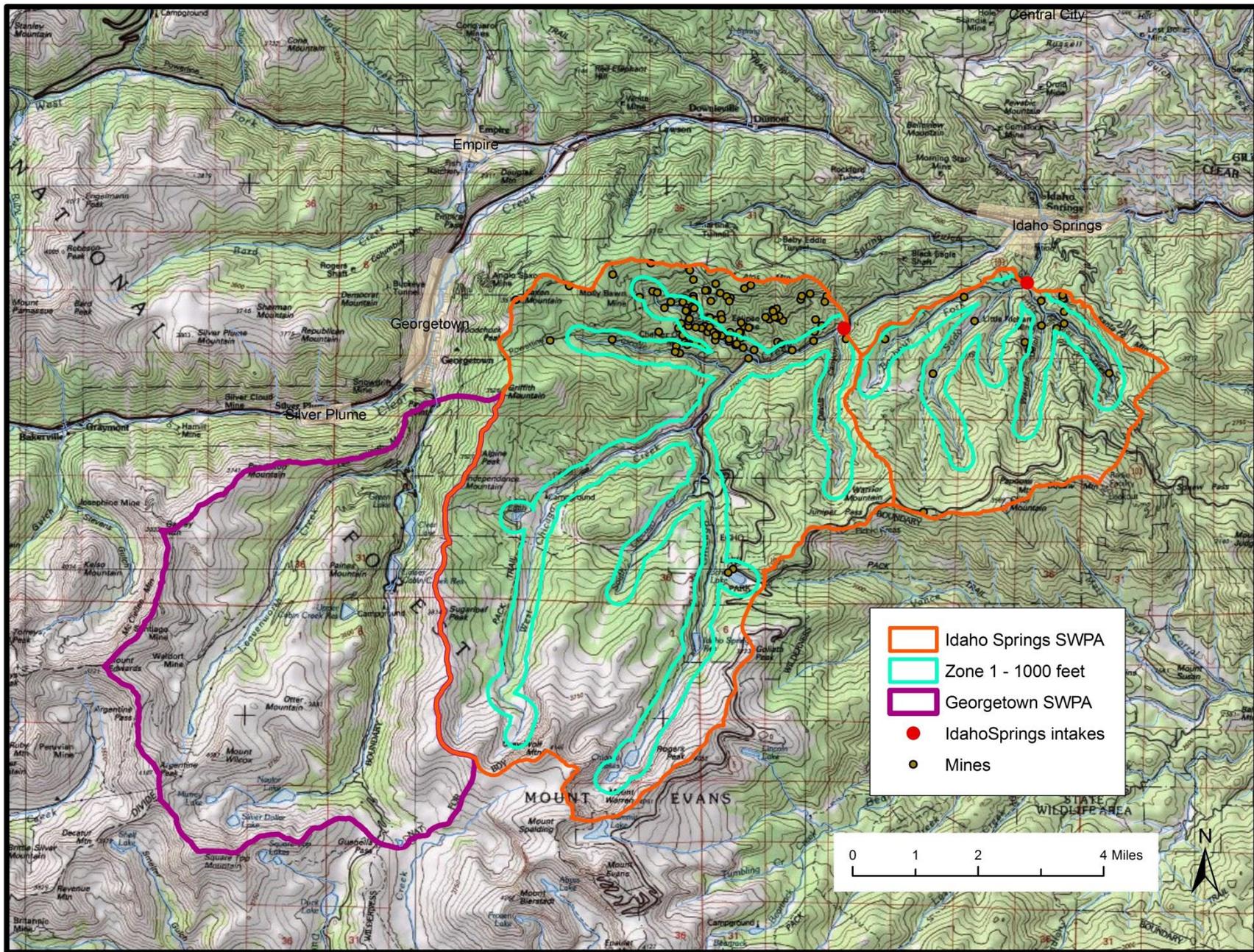
Source Water Protection Grant In-kind Match

City of Idaho Springs In-Kind Contribution Summary							
Name	Organization		6/28/16	7/26/16	Hrs	Hr. Rate	Total
		Pre-Mtg	1st Mtg	2nd Mtg			
Phyllis Adams	Upper Clear Creek Watershed Association		1		1	\$60	\$60
Bob Bowland	City of Idaho Springs, City Council		1		1	\$60	\$60
Kelly Cline	City of Westminster, Source Water Specialist		3		3	\$60	\$180
John Curtis	Town of Georgetown, Water Operator		1.5		1.5	\$60	\$90
Jim Ford	City of Black Hawk, Engineering		2		2	\$60	\$120
Dave Holm	Clear Creek Watershed Foundation		1		1	\$60	\$60
Lisa Leben	Clear Creek County, Special Projects Director		1.5		1.5	\$60	\$90
Andy Marsh	City of Idaho Springs, City Administrator	3	1		4	\$60	\$240
Ed Sigward	City of Idaho Springs, Water Operator		1		1	\$60	\$60
Alan Tiefenbach	City of Idaho Springs, Planner		1		1	\$60	\$30
Dan Wolf	City of Idaho Springs, Water/Wastewater Superintendent		1		1	\$60	\$60
Deb Zack	Colorado Division of Reclamation, Mining & Safety		3		3	\$60	\$180
					0	\$0	\$0
						TOTAL 21 IN-KIND	\$1,230

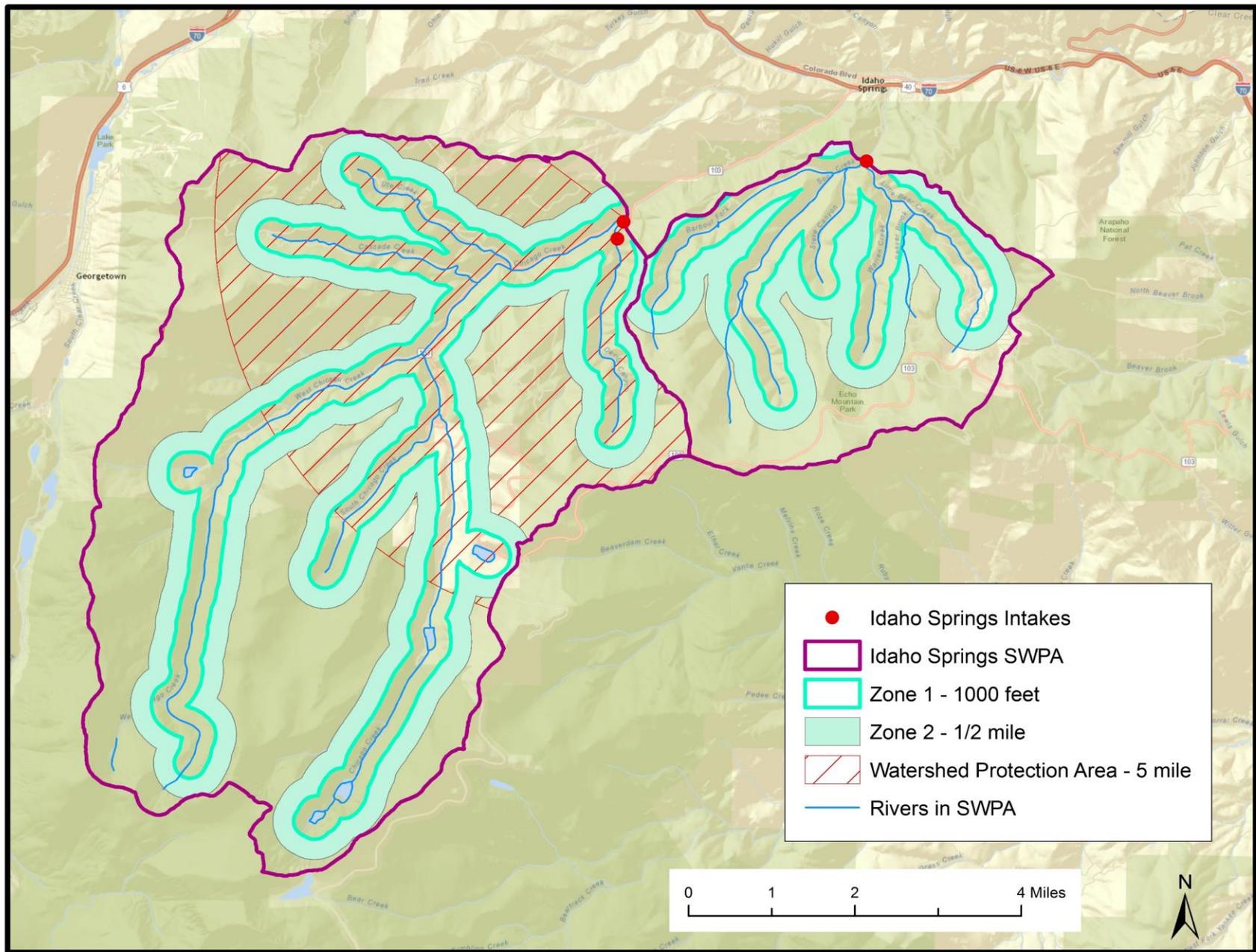
City of Idaho Springs Source Water Protection Area (SWPA)



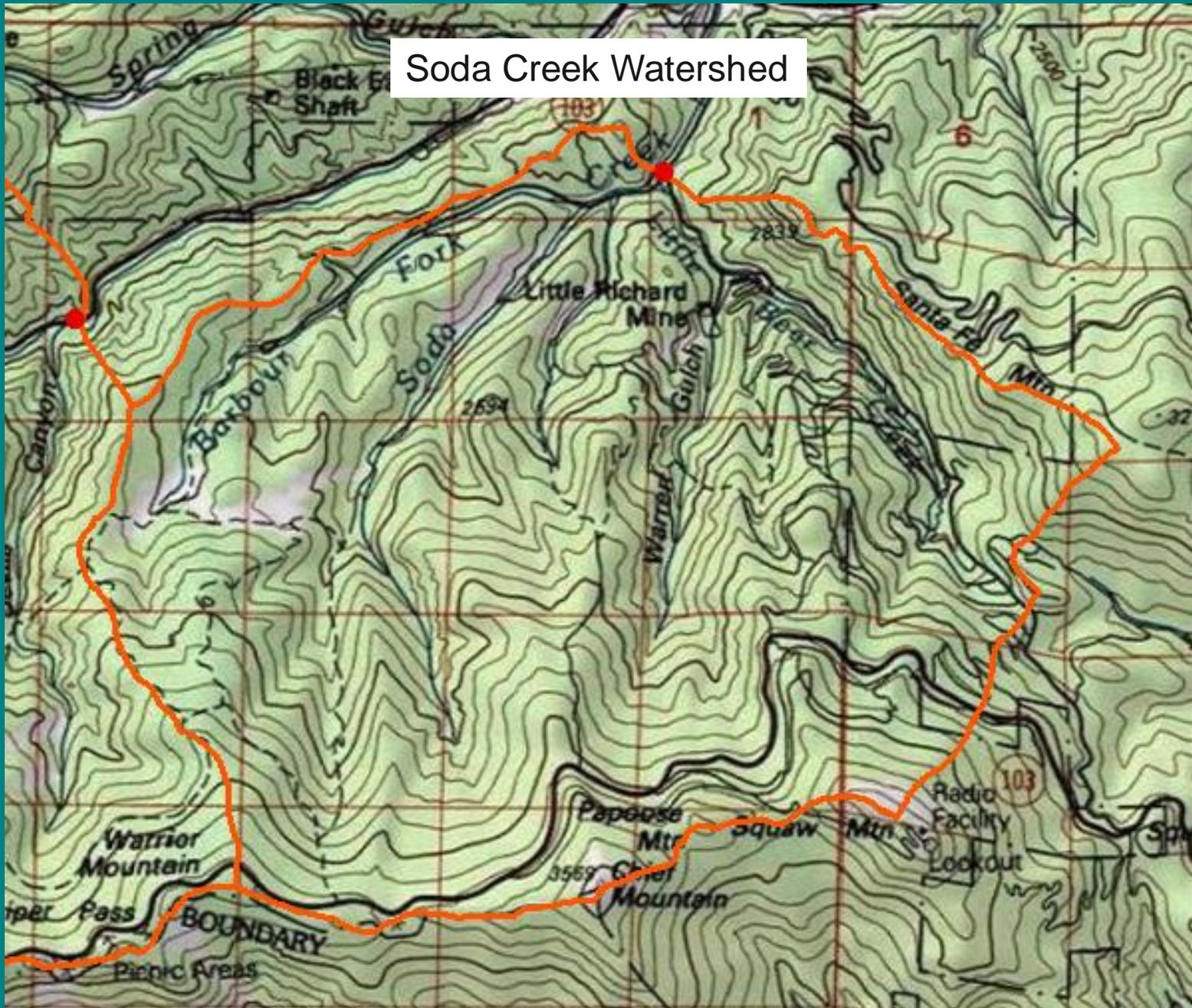
City of Idaho Springs Source Water Protection Area (SWPA)



Protection Areas Map

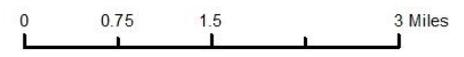
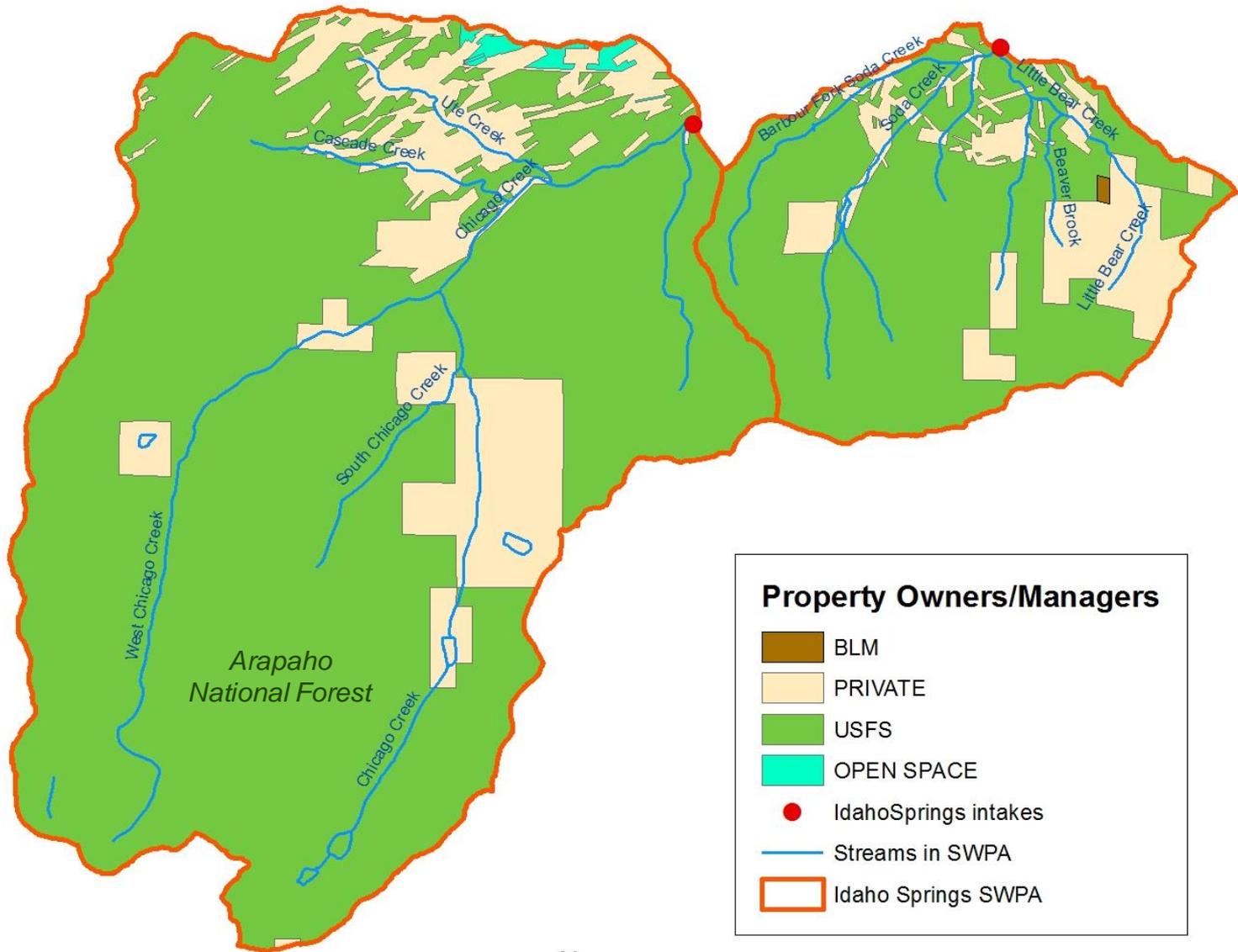


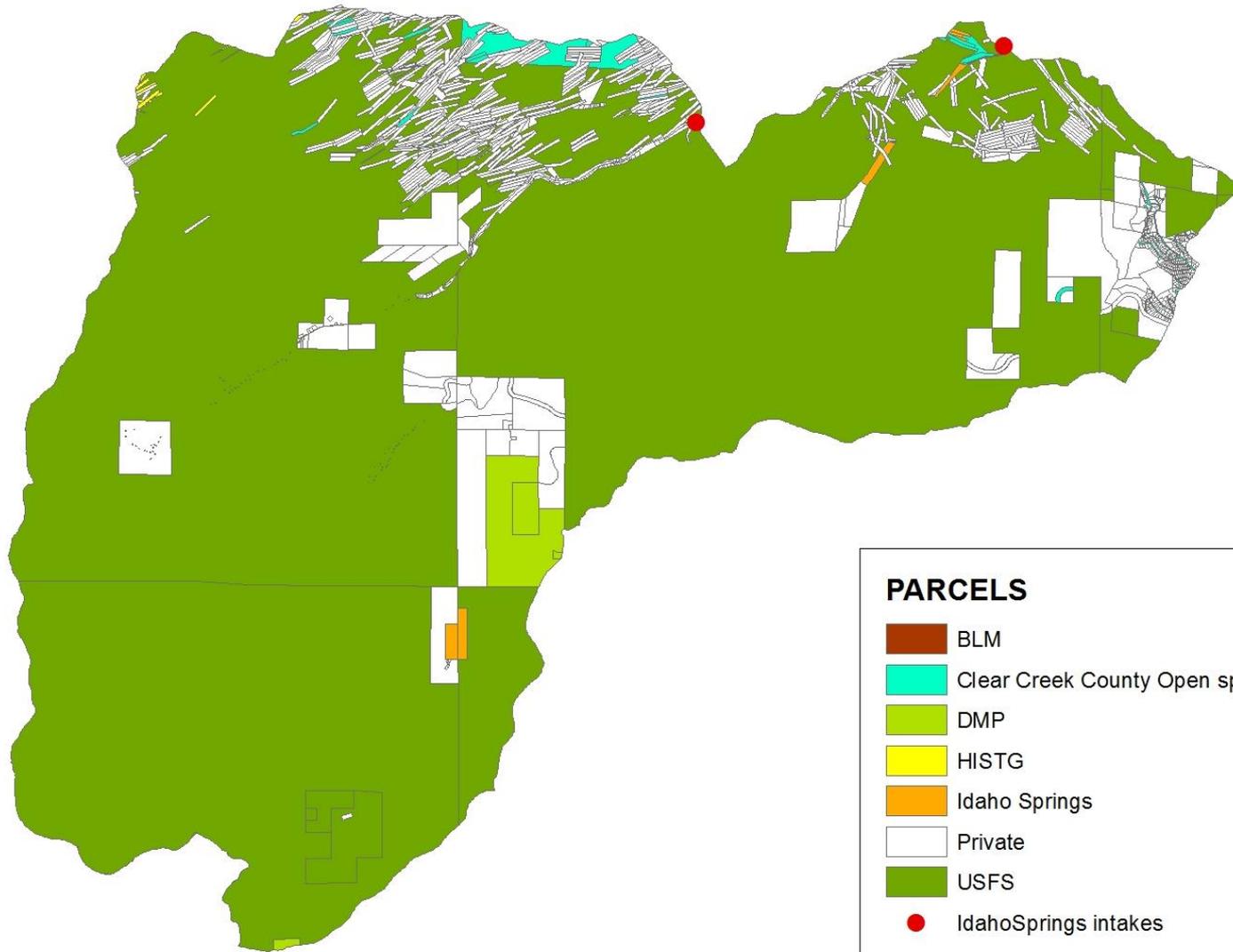
Soda Creek Watershed



Chicago Creek Watershed







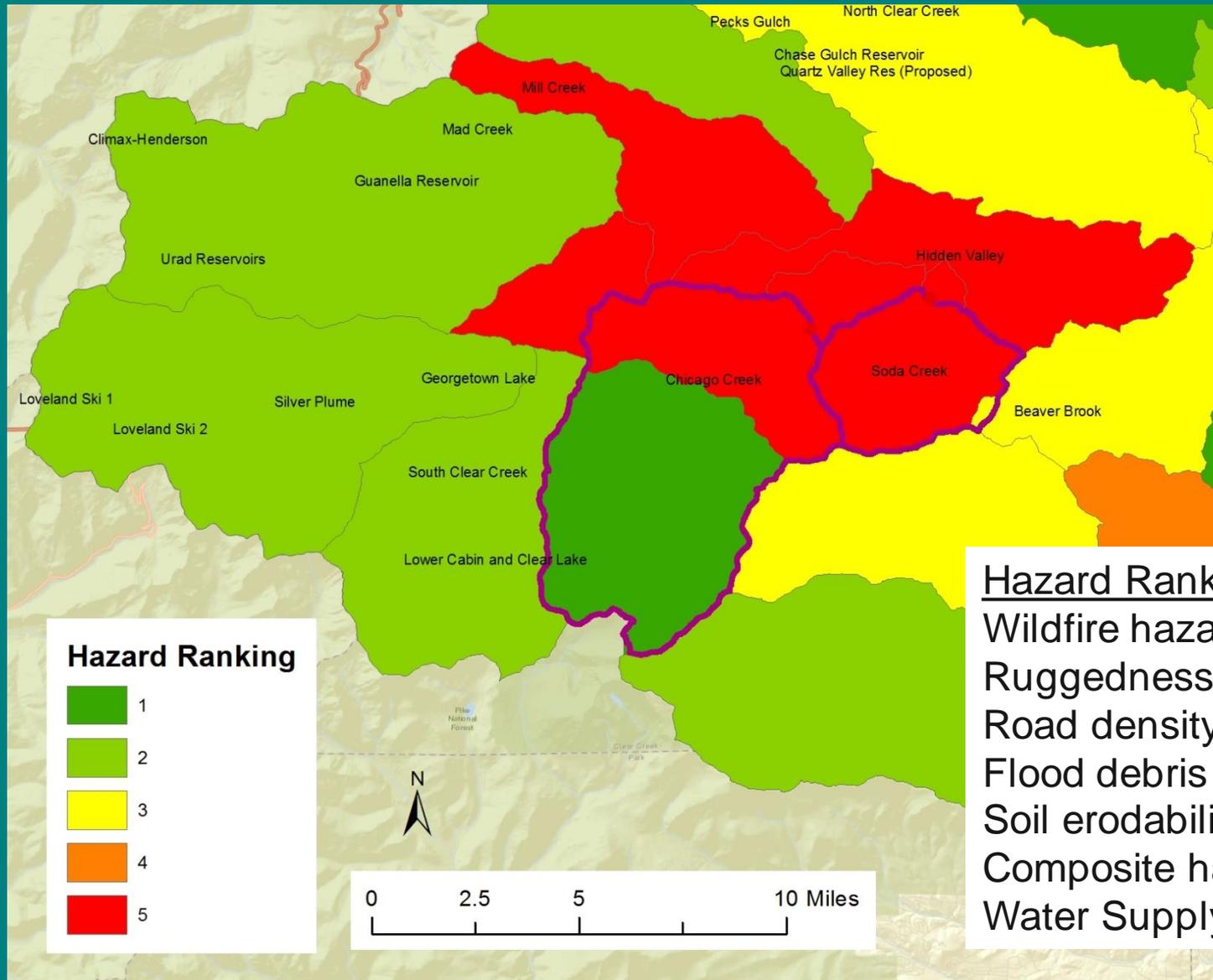
PARCELS

- BLM
- Clear Creek County Open space
- DMP
- HISTG
- Idaho Springs
- Private
- USFS
- IdahoSprings intakes



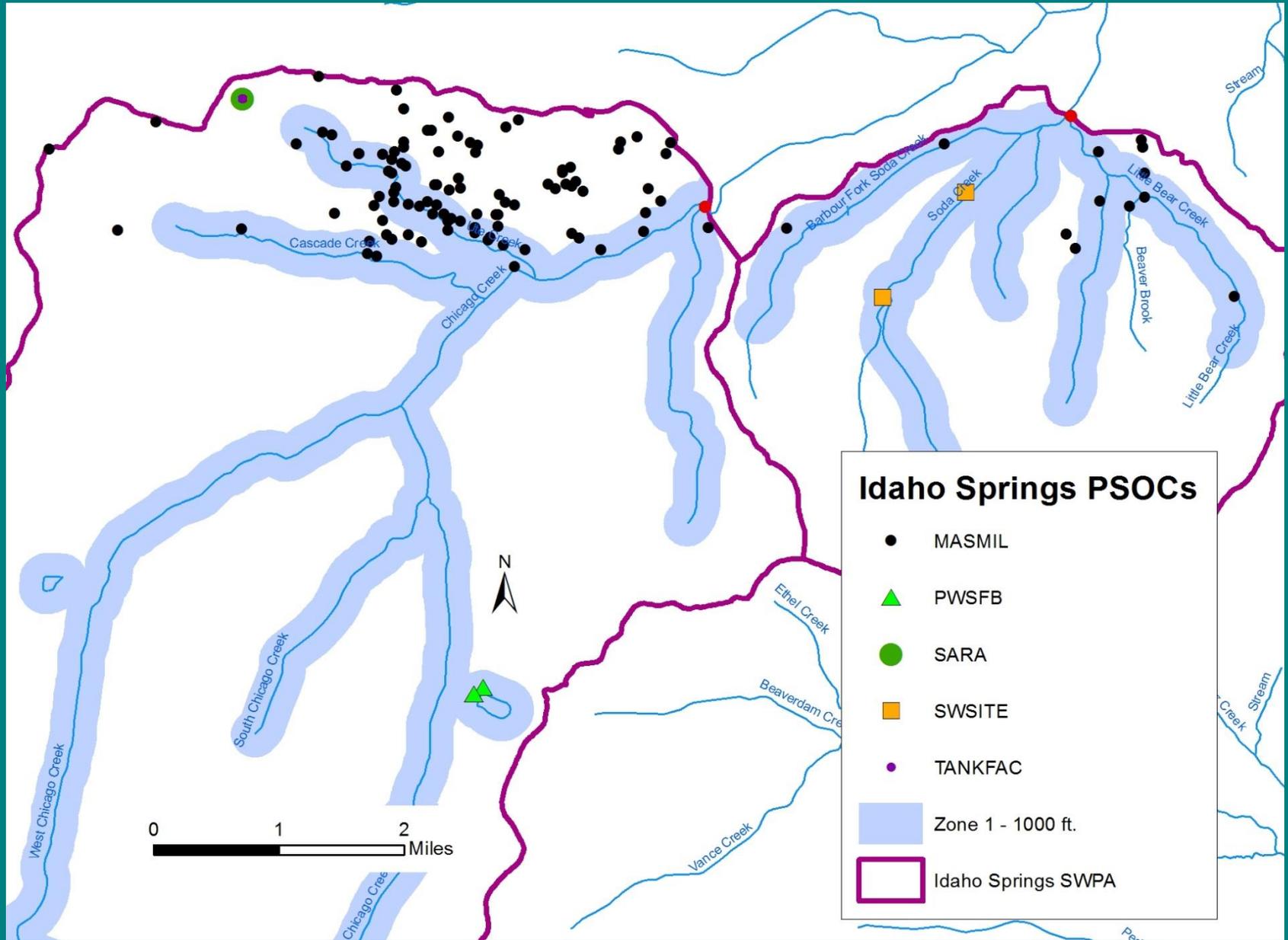
Soda/Chicago Creek Wildfire Watershed Assessment: JW Associates Inc.

Final Watershed Hazard Ranking: 1 & 5

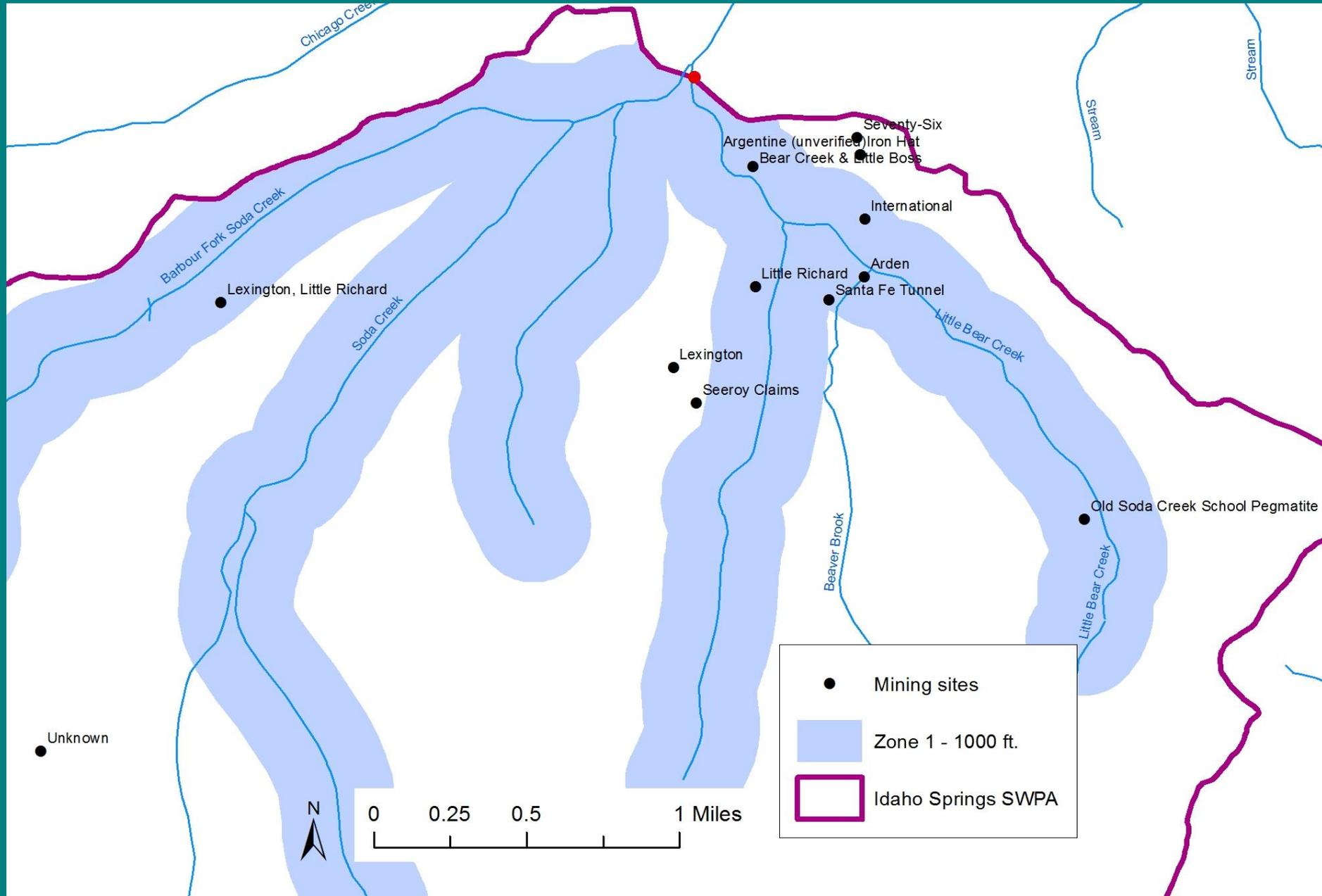


Hazard Rankings
Wildfire hazard
Ruggedness
Road density
Flood debris flow
Soil erodability
Composite hazard
Water Supply rank

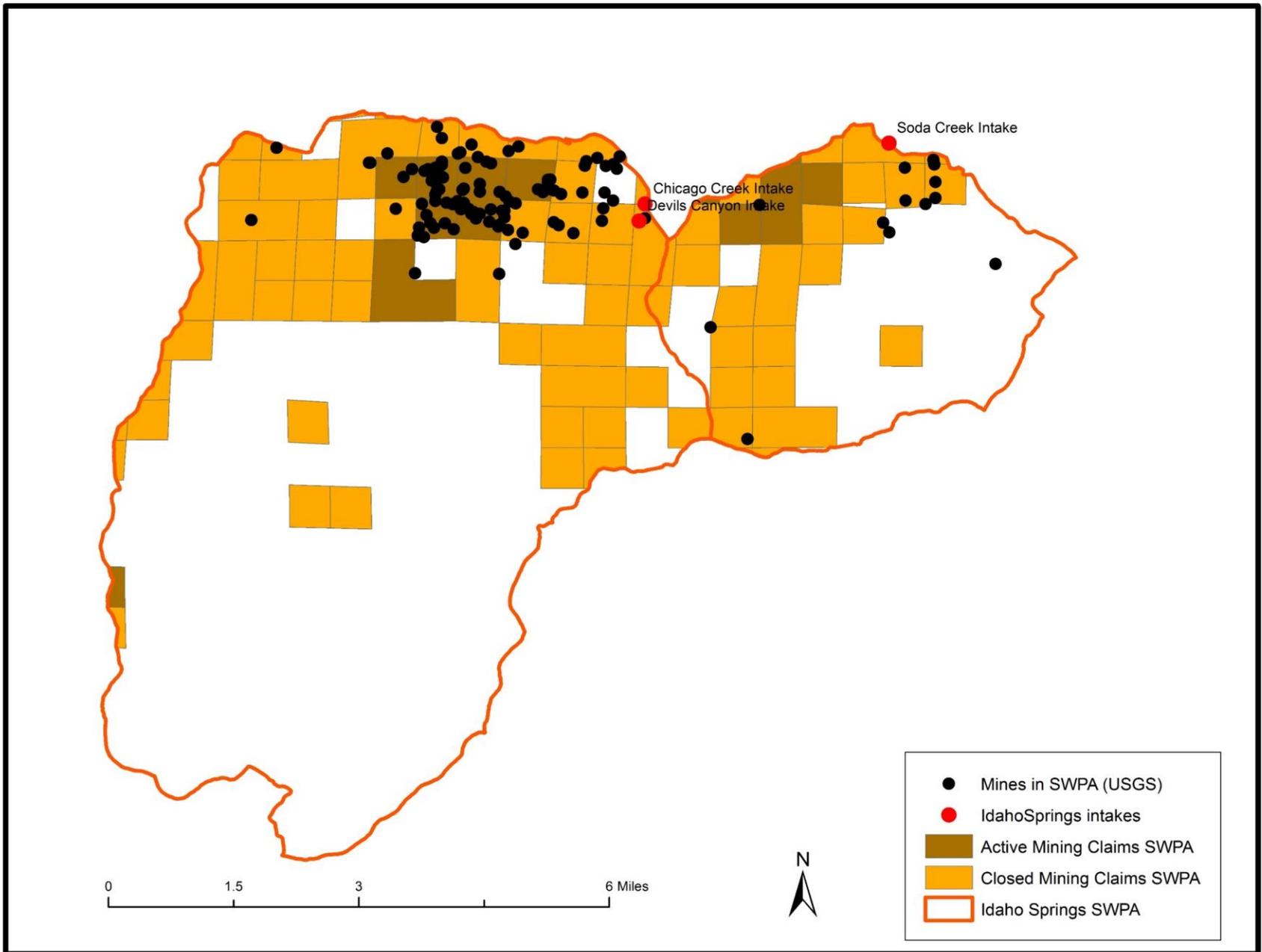
Potential Sources of Contaminants (SWAP Report)



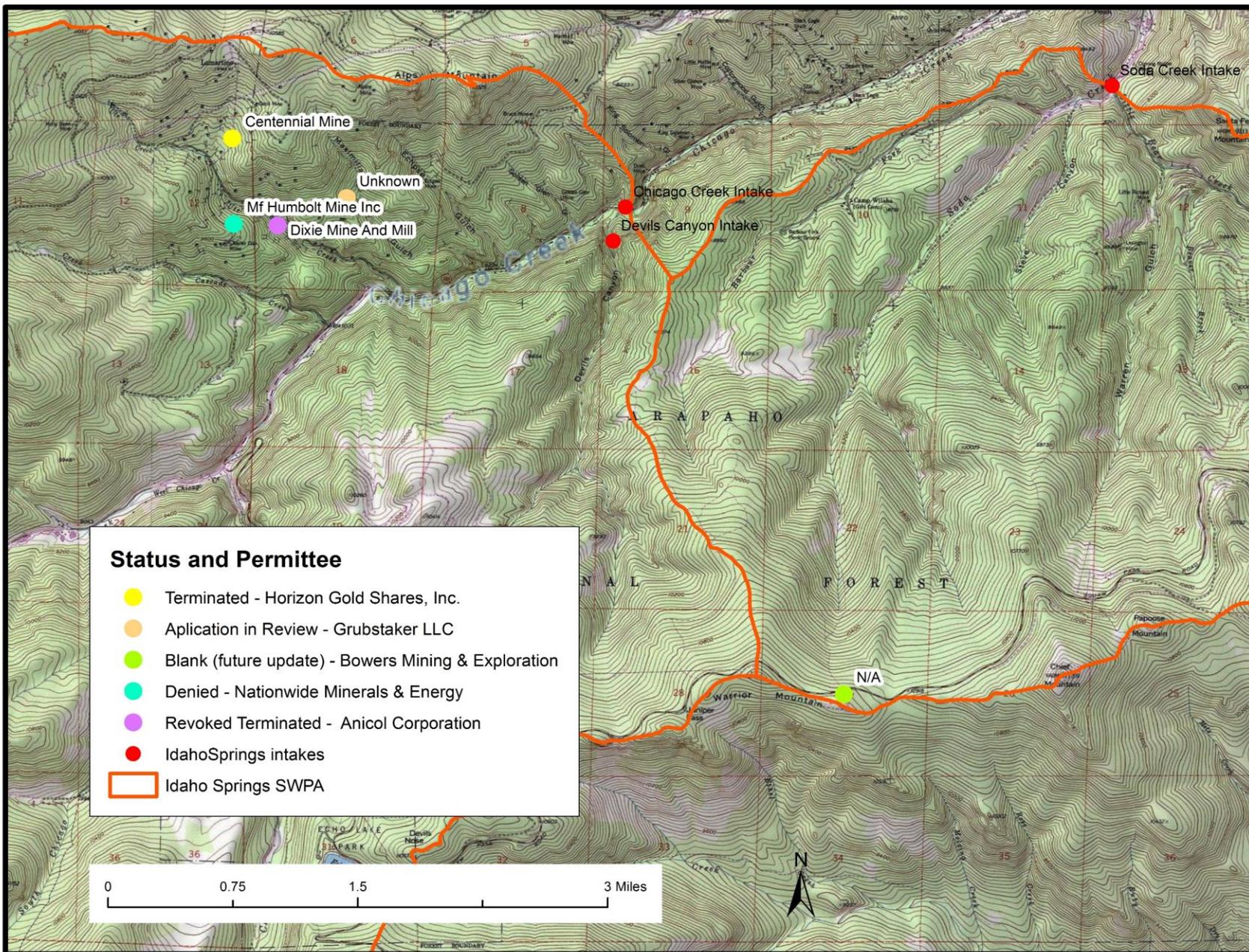
Abandoned Mines Soda Creek Watershed (Source: USGS)



Active and Closed Mining Claims



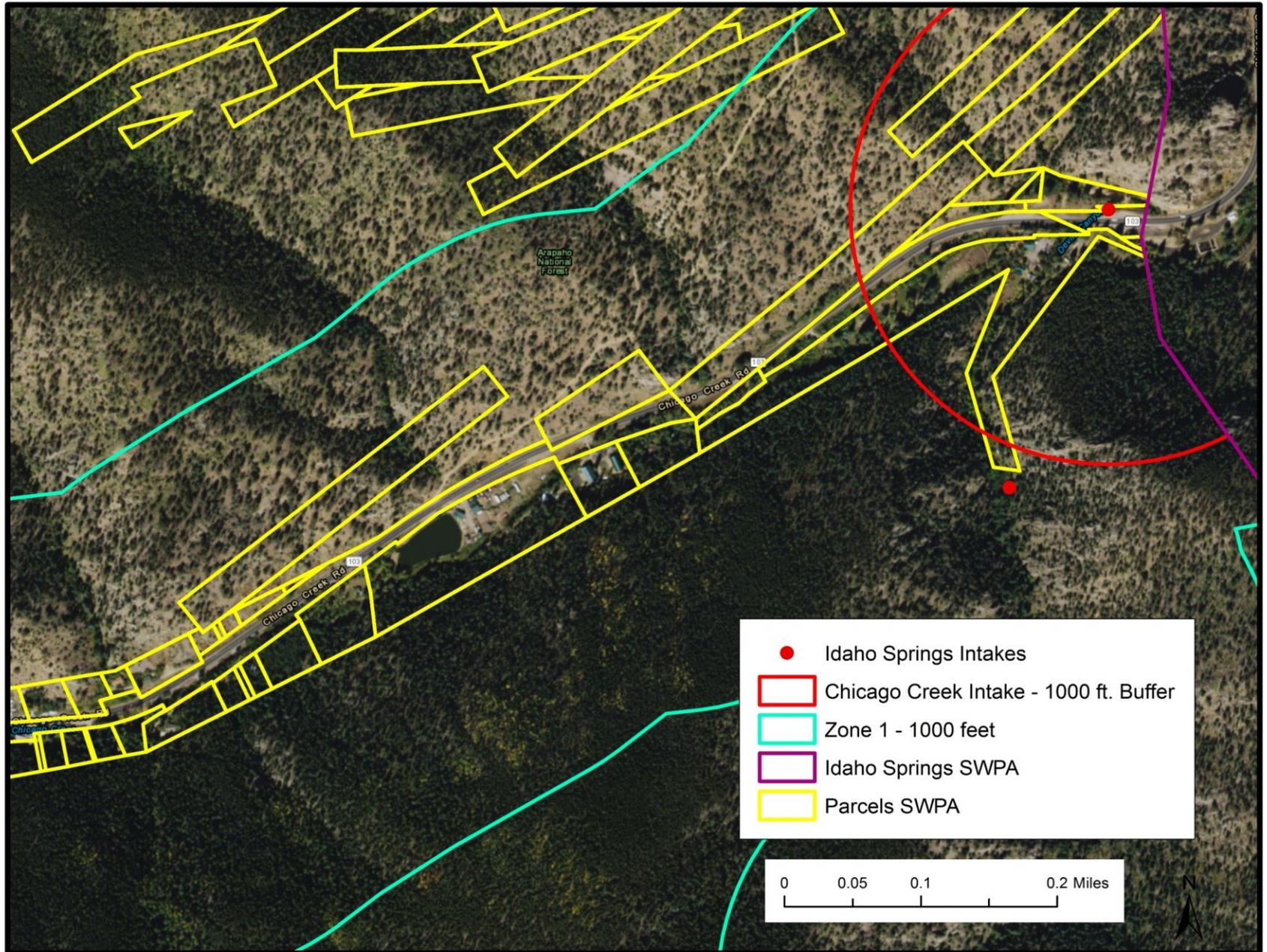
Permitted Mines Status - DRMS



NPDES - Discharge Permits



Upstream Properties



Storage Tank Inventory – All Inactive Tanks

Facility ID	Name	Address	Events	Status
8117	Idaho Springs Rclr	Hwy 103 - Squaw Pass	x	CR 1995, Closed 1996
12705	Summit Observatory	Mount Evans (University of Denver)	x	CR 1993, AST, LUST cleanup 1996
7364	Federal Aviation Administration	UNK		1 UST Closed in 1995

What Measures are Currently in Place?

- Clear Creek County Health Department regulations on septic systems and NPDES permits
- Household hazardous waste at County Transfer Station in Idaho Springs (seasonal and year-around events)
- Land use planning & management
 - Clear Creek County Master Plan and Zoning Ordinances
 - USFS Arapaho Roosevelt National Forest 1998 Revised Land and Resource Management Plan (Forest Plan)
 - Idaho Springs Watershed Protection Ordinance
- Clear Creek Watershed Foundation
- Upper Clear Creek Watershed Association
- Idaho Springs Watershed District Ordinance
- DRMS Regulations

Identify Issues of Concern and SWAP Risk Assessment

Potential Source of Contamination or Issue of Concern	Controllable (Direct, Indirect, No)	Impact to Water System (Minor, Moderate, Major)	Probability of Occurrence (Unlikely, Possible, Likely, Very Likely)	Risk (Very Low, Low, Intermediate, High, Very High)	Priority Ranking
Abandoned Mine Land					
Roads: Runoff, spills					
Future mining activity					
Dam failure					
Flooding					
Wildfire					
Dumping					
Storage Tanks					
Septic systems					
Reservoir maintenance					
Permitted Dischargers					
Weed abatement					
Trout Pond					
Recreation					

Next Meeting Date



Colorado Rural Water Association
Source Water Protection Program

Mark Williams, CRWA
mark@jimtown.org