

General

Spring Name _____ Springs Online ID# _____ ¹Spring Type Primary _____ Secondary _____

Country _____ State _____ County _____ ²Sensitivity _____

Land Unit _____ Land Unit Detail _____

Georef

Georef Source: GPS / Map Device _____ Datum _____

UTM Zone _____ Easting _____ Northing _____

Latitude _____ Longitude _____ Elev _____ ft / m

EPE _____ ft or m Comment _____

Site Description *Seepage/ flow emerges from...*

Description

Access Directions

Survey

Date _____ Begin Time _____ End Time _____

Project _____ Protocol: *Lev. 1 / Other* _____

Surveyors _____

Weather _____ Recent rain _____
 _____ No current/ recent precip. _____ Snow on ground _____
 _____ Rain during survey _____ Snow/ hail/ sleet during survey _____

Survey Notes

Site Condition (*amount of water present, grazing impacts, status of infrastructure*)

Flow

Most suitable method for measuring flow?

Volumetric / Weir / Flume / Other

Images

Whose Camera Used _____		Photo#	Photo Caption
Photo#	Photo Caption		

- 1 Spring Type**
 Anthropogenic
 Cave
 Exposure
 Fountain
 Geyser
 Gushet
 Hanging Garden
 Helocrene
 Hillslope
 Hypocrene
 Limnocrene
 Mound-form
 Rheocrene
- 2 Sensitivity**
 None - Spring Online users with Land Unit and Project permissions can see all data
 Location - Users need extra permissions to see spring location
 Survey - Users need extra permissions to see survey data
 Both - Users need extra permissions to see spring location and survey data
- 3 Land Unit**
 BLM
 DOE
 NPS
 Private
 State
 Tribal
 USFS
 Other
- 4 Georeference Source**
 GPS
 Map
 Other
- 5 Surface Type**
 BW- Backwall
 C- Cave/Tunnel
 CH- Channel
 CS- Colluvial slope
 HGC- High Grad. Cienega (>16°)
 LGC- Low Grad. Cienega(<16°)
 Mad- Madiculous Flow
 P- Pool
 PM- Pool Margin
 SB- Sloping Bedrock
 SZ- Spray Zone
 SM- Spring Mound
 TE- Terrace
 Oth- Other/anthropogenic
- 6 Surface Subtype (optional)**
 BW: Wet, Dry
 CH: Riffle, Run, Margin, Eph
 CS: Wet, Dry
 PO: Wet, Dry
 SB: Wet, Dry
 TE: LRZ, MRZ, URZ, HRZ
 UPL,LRZMRZ,LRZURZ,
 MRZURZ, HRZMRZ
 All: Anthro (human influence)
- 7 Slope Variability**
 Low, Medium, High
- 8 Soil Moisture**
0 - Dry, no soil moisture
 1 – Soil mostly dry, few slightly moist patches
 2 – Soil mostly slightly moist. few dry patches
3 – Soil moist, with little moisture
 4 – Soil mostly moist, with few wetter patches where soil easily sticks together
 5 – Soil mostly wet with soil easily sticking together, few drier patches
6 – Soil wet, soil easily sticks together
 7 - Some wet patches of soil (easily sticking together) and some saturated soil patches
8 – Soil saturated, added water does not soak up, but there is little to no standing or flowing water
 9 - Substantial standing or flowing water, but less than 100% of microhabitat is inundated
10 – Inundated, 100% standing or flowing water, with no emergent vegetation or rocks
- 9 Substrate**
 1- clay
 2- silt
 3- sand (0.1-1mm)
 4- fine gravel (1-10 mm)
 5- coarse gravel (1-10 cm)
 6- cobble/ small boulders (10-100 cm)
 7- large boulders (>1 m)
 8- bedrock
 Organic Soil, including peat. Not including litter.
 Other/anthropogenic
- 10 Lifestage**
 Adult
 Egg
 Exuvia
 Immature
 Larvae
 Mixed
 Other
 Pupae
 Shell
- 11 Habitat**
 AQ - Aquatic
 T - Terrestrial
- 12 Method (Invertebrates)**
 Spot
 Benthic
- 13 Detection Type (Vertebrates)**
 Call
 Observed
 Sign
 Reported (by others)
 Other
- 14 Str (Vegetation Cover Codes)**
 NV- Nonvascular (moss, liverworts, lichen)
 GC- Ground Cover (all non-aquatic herbaceous veg, including grasses and forbs)
For woody shrubs and trees:
 SC- Shrub Cover (all cover in 0-4 m strata)
 MC- Midcanopy (all cover in 4-10 m strata)
 TC- Tall Canopy Cover (>10 m)
 BC- Basal Cover (record if >1% of cover)
- 15 Emergence Environ/Detail**
 Cave (Subterranean)
 Subaerial
 Subglacial
 Subaqueous-lentic freshwater
 Subaqueous-lotic freshwater
 Subaqueous-estuarine
 Subaqueous-marine
- 16 Source Geomorphology**
 Contact Spring
 Fracture Spring
 Seepage or filtration
 Tubular Spring
- 17 Flow Force Mechanism**
 Anthropogenic
 Artesian
 Geothermal
 Gravity
 Other
- 18/19 Parent Rock Type/Subtype**
 *only a selection of subtypes is listed
Igneous
 andesite
 basalt
 dacite
 gabbro
 granite
 peridotite
 rhyolite
Metamorphic
 gneiss
 marble
 quartzite
 slate
 schist
Sedimentary
 conglomerate
 dolomite
 evaporates
 limestone
 mudstone
 sandstone
 shale
 siltstone
Unconsolidated
 alluvium
 ash/ loess mixture
 talus deposit
Combination
- 20 Channel Dynamics**
 Mixed runoff/spring dominated
 Runoff dominated
 Spring dominated
 N/A
- 21 Flow Consistency**
 Perennial
 Ephemeral (GDE Intermittent)
 Unknown
- 22 Flow Measurement Technique**
 Volumetric (timed volume capture)
 Current meter
 Weir
 Flume
 Other