National Park Service - Sierra Nevada Network

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FIELD VISIT FORM

DATE 7/16/19 **PDT TIME** 10.00 PDT **LOCAL TIME** 10:00 PDT OR PST?

WQ Msmt _____ **PDT** **Flow Msmt** _____ **PDT**

PARK YOSE **STATION** Budd Creek b/t culvert & side channel

PERSONNEL RH, BMa, MW

WEATHER: (circle one descriptor from each category) **Days since last significant rainfall if known:** _____

Cold / (Cool) / Warm / Hot	Rain / Mist / Sleet / Humid / (Dry)	Windy / Gusty / Breeze / (Calm)	Cloudy / Pt.Cloudy / Overcast / (Clear)

FLOW SEVERITY (circle one): Dry / Low / Normal / (Above Normal) / Flood / No Flow / Interstitial

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Water Level (Stage) Readings: At a minimum, record the start and stop readings (PDT 24 Hr)

Circle one: Rising / Falling / Steady / Peak **G.H. CHANGES** _____ ft. in _____ minutes.

Time	Benchmark or staff plate (note if tape-down)	Bed level at staff-plate	Time	Benchmark or staff plate (note if tape-down)
10:04	10 - 1.99 = 8.01 ft * TD		10:04	staff by bridge = 0.54 m
11:00	10 - 2.01			

HIGH WATER MARK: _____

CONTROL DESCRIPTION: Control type (natural riffle, channel, channel constriction, weir); Conditions (clear, affected by moss, leaves, etc) → poor control @ high water

Control location: 0 ft d/s of gage; Depth @ control pt: _____ft

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Point of zero flow (= water level at staff plate - depth @ control pt.): _____ft. **GAGE POOL**

DESCRIPTION: Flow / Pool / Dry

Campbell logger stage reading prior to and following the discharge msmt _____/_____ft.

Downloaded Campbell logger? Yes / No (name file with download date) Solinst

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MEASUREMENT TYPE (circle one) (Wading) Salt Dilution Other _____

Susp. Weight (for bridge msmts): N/A ADV

LOCATION: 15 ft. Upstr / Dnstr. (of gage)

METER TYPE leveloggor (black) **S/N** _____ **SPIN/CALIB** Before Meas. _____ After 30

Width 12 ft **# of Sections** _____ **Method** (0.6 or 0.2 / 0.8, estimated)

FLOW DESCRIPTION: Steady or varied; uniform or non-uniform; laminar or turbulent; suspended material? (leaves or algae in water)

None

CROSS SECTION / SUBSTRATE: Uniform/non-uniform; smooth/moderately rough/rough/very rough;
Channel bed material (mud/sand/cobbles/pebbles/boulders)
bed rock slab

MEAN GAGE HEIGHT_____(mean of the heights from the start through the end of the discharge msmt)

DISCHARGE 13.225 cfs

QA/QC: Is measurement part of precision assessment: Y or N

OBSERVATIONS/COMMENTS/NOTES: see below

Parameter	Measurement	Units	Method	Equip S/N	Notes
Air Temperature		°C			
H_20 Temperature		°C			

PHOTOS TAKEN? Yes / No **HOW MANY?** _____

ID	Location (UTM or pt. #)	Description (include orientation)

Notes: At high water, gage pool is turbulent, → Channel riffles persist from ~20ft upstream of gage to ~50ft downstream of gage to gage height of zero flow location (low water control)

* ADV batteries died mid transect @ : Replaced & continued

Budd Cr b/t Culvert & Side Channel

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ADV Discharge Measurement pg 3 of 3

Time: 10:20 - 11:00 AM PDT

Total Q	=	13.225 cfs
Q uncertainty	=	7.7%
Largest Error	=	6.7% → Velocity
# Stations	=	16
V mean	=	1.336 ft/s
V max	=	1.841 ft/s
Width	=	12.002 ft
Area	=	9.898 ft^2
Depth Mean	=	0.82 ft
Depth Max	=	1.1 ft
SNR Mean	=	32.5 dB
σ V mean	=	0.05 ft/s
Temp	=	41.7°F