

Eastern Snake Plain Return Flow Monitoring Proposal

Prepared by



Water Management Department

Submitted
January 31, 2001

Future Field Data Collection Proposal

Between March 15, 2002 and April 30, 2002

- 1) Install Submersible pressure transducers, data loggers (purchased from Wescor Environmental, Logan, Utah), and reference staff plate.
- 2) Survey reference marks.
- 3) Perform discharge measurement (if water is flowing)

Every 4 weeks between April 15, 2002 and October 15, 2002

- 1) Perform site inspection (download data & check batteries).
- 2) Perform discharge measurement.
- 3) Update and maintain rating.

Between September 31, 2002 and January 31, 2003

- 1) Review & QA recorded stage data.
- 2) Review and apply stage discharge ratings & stage shifts to compute daily average discharge values.
- 3) Prepare a station analysis for each site documenting computational procedures and summarize all maintenance for the site.

On or before February 1, 2003

- 1) Present IDWR (& any other interested agencies) with an electronic copy of daily average discharge values (in whatever format is required).

Every 4 weeks between April 15, 2003 and October 15, 2003

- 1) Perform site inspection (download data & check batteries).
- 2) Perform discharge measurement.
- 3) Update and maintain rating.

Between September 31, 2003 and January 31, 2004

- 1) Survey reference marks to check site stability since installation.
- 2) Review & QA recorded stage data.
- 3) Review and apply stage discharge ratings & stage shifts to compute daily average discharge values.
- 4) Prepare a station analysis for each site documenting computational procedures and summarize all maintenance for the site.

On or before February 1, 2004

- 1) Present IDWR (& any other interested agencies) with an electronic copy of daily average discharge values (in whatever format is required).

Project Cost Proposal

Helicopter Flyover of Henry's Fork	
Helicopter charter	\$2,600
Video tape Copies, video	
Interpretation & documentation	\$2,400
Project Reconnaissance, investigation,	
Research & Planning	\$5,000
Equipment Purchase	
Transducers & Loggers	\$47,000
Miscellaneous	\$7,000
Installation	\$46,000
Annual Maintenance	
Water Year 2002	\$35,000
Water Year 2003	\$35,000
Return Flow Data Collection Project TOTAL	\$180,000

Proposed List of Continuous Monitoring Sites

In the mid 1980's some of these sites had continuous monitoring set up while others only had miscellaneous measurements made over a several year period of time. We have added only a few sites that had not been measured during the 1980's. These additional sites were thought to be needed to obtain the project goals. WE ARE PROPOSING TO ESTABLISH CONTINUOUS MONITORING AT 44 OF THESE SITES.

			Misc Msmnt's (80's)	Continuous Recorder (80's)	Approx Peak Q (80's)
Henry's Fork River basin:					
1		Farmers Own Canal - Black Spring			
2	13055337	Rexburg Canal drain nr Thornton	X		25
3	13050543	Independent Canal Drain	X		45
4	13056550	Texas Slough Canal nr Thornton	X		35
5	13056600	Texas Slough nr Rexburg		X	330
6		Liberty Park Canal			
7	13056850	Bannock Jim Spring Slough	X		20
Snake River to American Falls Reservoir:					
8		Annis Slough			
9		Scott's Slough			
10		Dry Bed			
11		South Parks			
12	13057045	Butte Market Lake Canal	X		35
13	13038111	Burgess Drain near Idaho Falls	X		30
Near to and just below American Falls Reservoir:					
14	13069548	Sterling Waste	X		20
15	13069565	Aberdeen Waste Drain		X	110
16	13076210	Tartar Waste	X		23
17	13077650	Rock Cr nr American Falls		X	3990
	13069532	Crystal Waste nr Springfield	X		79(44 base)
Below American Falls Reservoir to King Hill:					
18	13082060	F Drain nr Declo		X	478
19	13082032	D3 Drain	X		20
20	13082062	D-5 Drn nr Rupert	X		45
21	13082064	A-4 Drn nr Rupert	X		40
22	13082320	Marsh Creek nr Declo		X	214
23	13082330	Spring Cr nr Declo	X		20
24	13084705	D-16 Drn nr Heyburn	X		25
25	13084707	B Drn nr Heyburn	X		20
26	13085060	D-17 Drn nr Heyburn	X		25
27	13085065	Main Drn nr Heyburn	X		50
28	13089690	Irr Drain nr Hansen	X		20
29	13089695	3700 East Rd Drain nr Kimberly	X		23
30	13090370	Fish Hatchery Waste 0		X	70
31	13090460	Perrine Coulee nr Twin Falls	X		30
32	13091733	Jerome Golf Course Drain 1		X	29
33	13093150	Sonnicksen Drain		X	60
34	13093190	Sucker Flat Drain nr Filer	X		50
35	13093550	Cedar Draw nr Filer		X	494
36	13093900	Waste I nr Buhl	X		27
37	13094050	Drain to fish Hatchery	X		30
38	13094700	Mud Creek nr Buhl		X	328
39	13095060	Fish Hatchery Drain	X		20
40	13095360	S Coulee (Cedar Draw)	X		80
41	13095490	Irr Ditch to Blind Canyon	X		40
42	13133785	Drn nr Bickel Springs	X		55
43	13152450	Irr Ditch nr Bliss	X		20
44	13152895	W Drain nr Tuttle (Drain to Malad River)	X		