

CENWP-OD

08 May 2018

MEMORANDUM FOR THE RECORD

**COORDINATION TITLE** - 18WVP02 MFR Winter Steelhead Maximum Spawning Flows in the North and South Santiam Rivers

**DATE** - 08 May 2018

**PROJECT** - Foster Dam, Big Cliff Dam

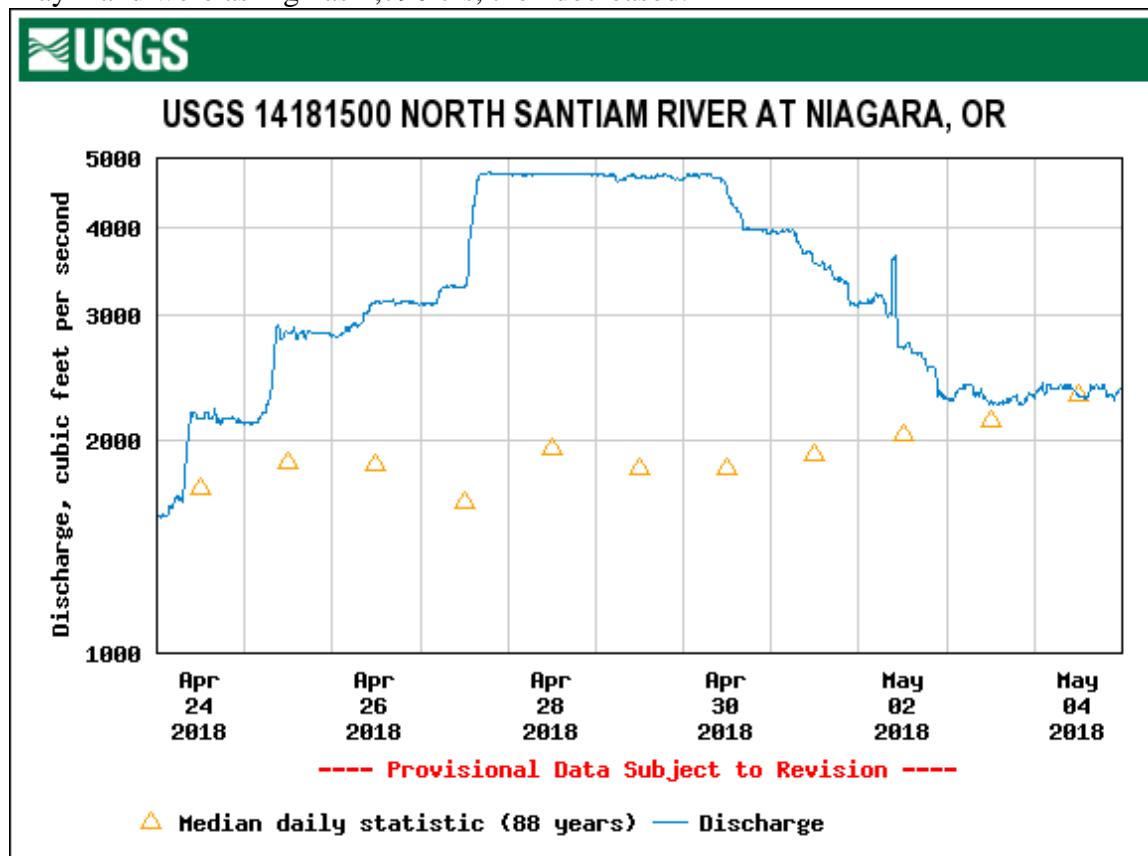
**RESPONSE DATE** - 22 May 2018

**Description of the problem**

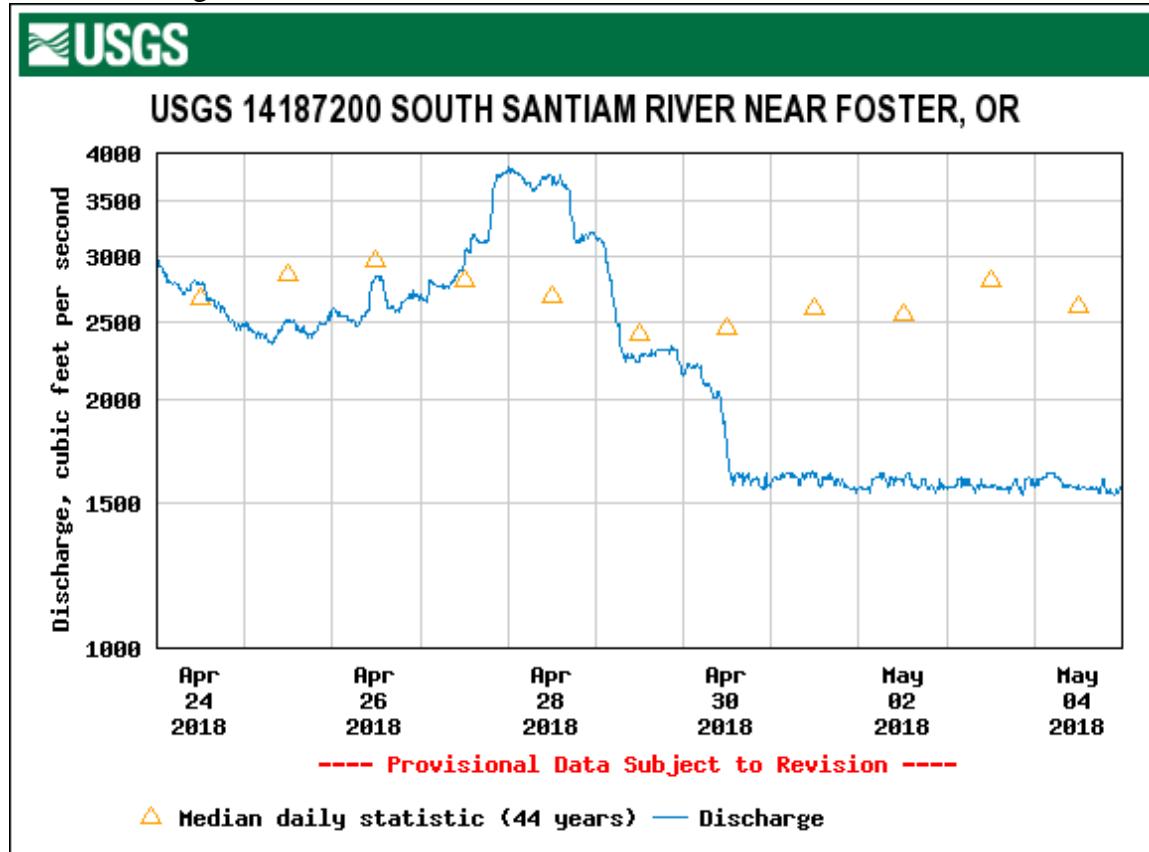
During late April through early May, flows in the North and South Santiam Rivers were greater than the maximum flow criteria of 3,000 cfs listed in the Biological Opinion (BiOp) to support spawning winter steelhead. Flows greater than the 3,000 cfs criteria are permitted in the BiOp in the North Santiam and South Santiam Rivers if reservoir storage is above rule curve, but notification to the Services is still required. Both Green Peter and Detroit Reservoirs were above their respective rule curves during this operation.

**Dates of changes/impacts/repairs**

North Santiam (below Big Cliff): Discharge was greater than 3,000 cfs from April 26-May 2 and were as high as 4,790 cfs, then decreased.



South Santiam (below Foster): Discharge was greater than 3,000 cfs from April 27-29 and were as high as 3,860 cfs, then decreased.



#### Length of time for changes/impacts/repairs

North Santiam (below Big Cliff): Approximately six days

South Santiam (below Foster): Approximately two days

#### Expected impacts on fish

There was potential for dewatering of winter steelhead redds.

#### Comments from agencies

See attachments 1 and 2

#### Final results

Flows were kept above the minimum incubation flows in the North and South Santiam Rivers to mitigate impacts to winter steelhead redds.

Please email or call with questions or concerns.

Thank you,

Chris Walker

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