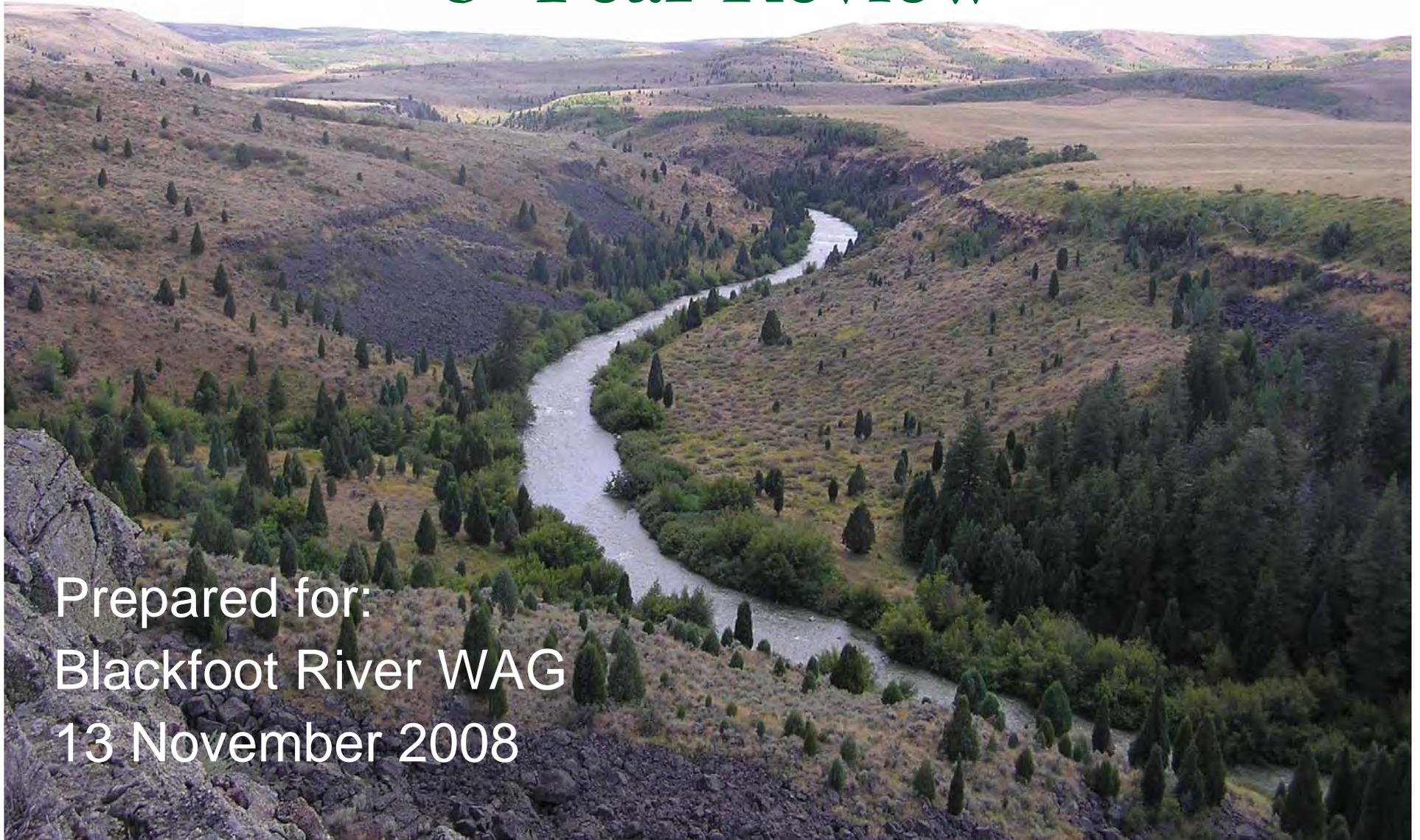


# Blackfoot River Subbasin 5-Year Review



Prepared for:  
Blackfoot River WAG  
13 November 2008

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# What is House Bill 145?

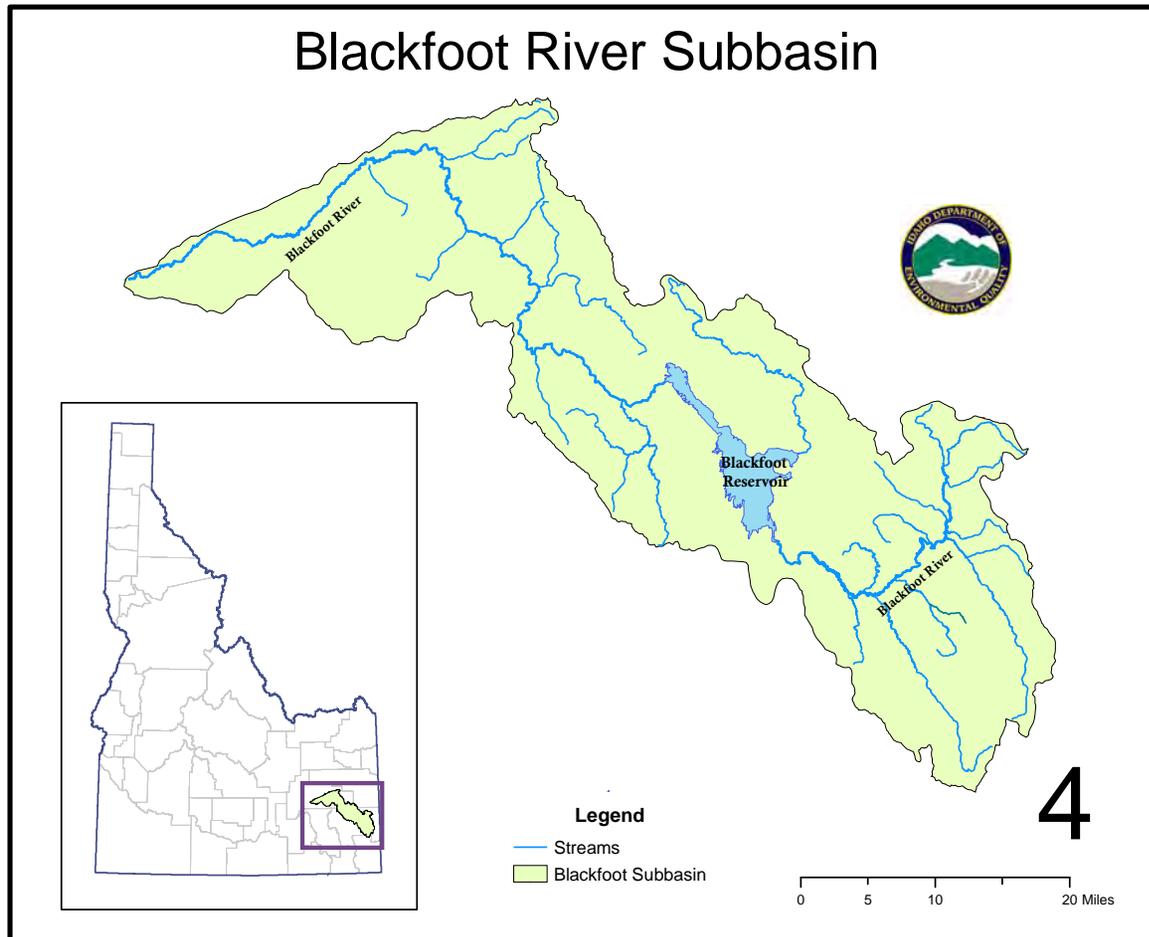
- Legislation that ammended sections of Idaho Code (39-3601 et seq.) that relate to how the DEQ develops TMDLs.
    - More clearly defines the role of WAGs in TMDL process
    - DEQ must involve WAG in SBA/TMDL development and **review process.**
    - WAGs are to include representatives of the industries and interests affected by the management of a specific watershed.
    - Director shall review each SBA, TMDL, and Implementation plan(s) and all available data at intervals no greater than five years.
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# What is a 5-Year Review?

- A re-evaluation of the SBA, TMDL, Implementation Plan, beneficial use status, and water quality criteria relevant to the original document.
  - An examination of new information and data.
  - Recommend changes based on findings.
  - Written report sent to State of Idaho.
-

# Subbasin Overview



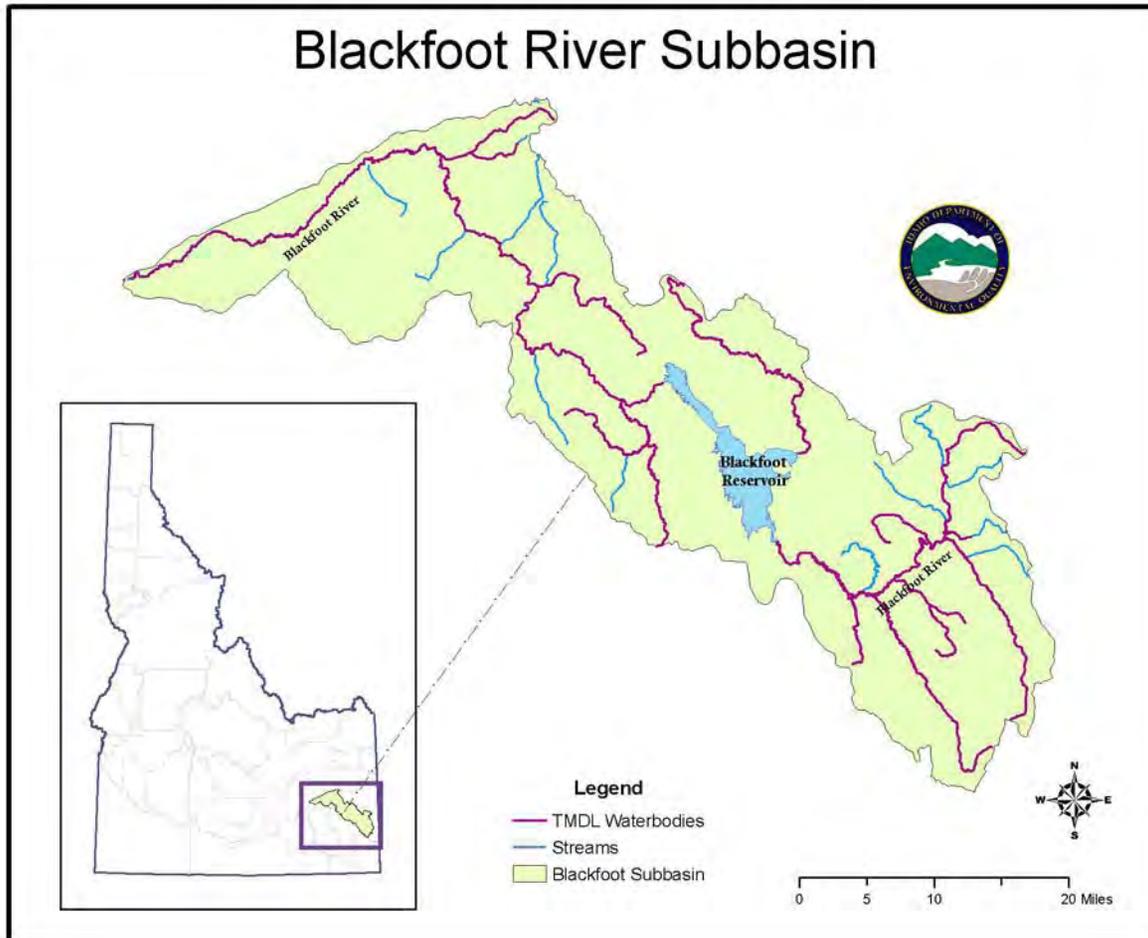
- 2002 SBA/TMDL Approved
- 2006 Implementation Plan completed
- 2007 Brush Creek Temperature TMDL
- 2008 5-Year Review

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# 5-Year Review Document

- Review and status of approved TMDLs
    - Targets, load capacities, load allocations, etc.
  - Review and status of SBA information
    - Beneficial Uses, basin characteristics, summary and analysis of WQ data
  - Review implementation plans and activities
    - Responsible Parties, planned activities, accomplishments, future strategies, time frames
  - Summary of review
    - Changes in basin, TMDL analysis, WAG consultation, Recommendations
-

# TMDL Review and Status



- 23 Approved TMDLs
  - 18 sediment
  - 4 nutrients
  - 1 temperature
  - Brush Creek PNV 2007

# TMDL Review and Status

## Approved TMDLs

Waterbody	Segment	TMDL pollutant/parameter <sup>1</sup>
Blackfoot River	Headwaters to Blackfoot Reservoir	Sediment
Blackfoot River	Blackfoot Reservoir to Wolverine Creek	Sediment, nutrients
Blackfoot River	Wolverine Creek to Main Canal (equalizing dam)	Sediment, nutrients
Wolverine Creek	Headwaters to mouth	Sediment, nutrients
Corral Creek	Headwaters to mouth	Sediment
Meadow Creek	Headwaters to mouth	Sediment
Trail Creek (upper Blackfoot)	Headwaters to mouth	Sediment
Slug Creek	Headwaters to mouth	Sediment
Dry Valley Creek	Headwaters to mouth	Sediment
Angus Creek	Headwaters to mouth	Sediment
Lanes Creek	Headwaters to mouth	Sediment
Bacon Creek	Lanes Creek to USFS boundary	Sediment
Sheep Creek	Headwaters to mouth	Sediment
Diamond Creek	Headwaters to mouth	Sediment
Brush Creek	Headwaters to mouth	Sediment, temperature
Grizzly Creek	Headwaters to mouth	Sediment
Maybe Canyon Creek	Headwaters to mouth	Sediment
Jones Creek	Headwaters to mouth	Nutrients

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# TMDL Review and Status

- Pollutant Targets
    - Sediment, nutrients, temperature
  - Control and Monitoring Points
    - Outlined in Implementation Plan
  - Load Capacity
    - Set based on natural condition and literature values
  - Load Allocations
    - Reduction needed to attain beneficial uses
-



# Sediment Targets

- **Bank Stability**
  - 80 % stability
- **Depth Fines**
  - <6.25 mm not to exceed a 5-year mean of >25% by volume
  - <0.85 mm not to exceed a 5-year mean of greater than 10% by volume
- **Turbidity (Dry Valley Mine)**
  - Upper (DV-7)
    - High Flow – not to exceed a 14-day mean of 19.31 NT
    - Low Flow – not to exceed a 28-day mean of 12.09 NTU
  - Lower (DV-1)
    - All Flows
      - 14 day mean - not to exceed 4.6 NTU
      - Daily max – not to exceed 20.15 NTU

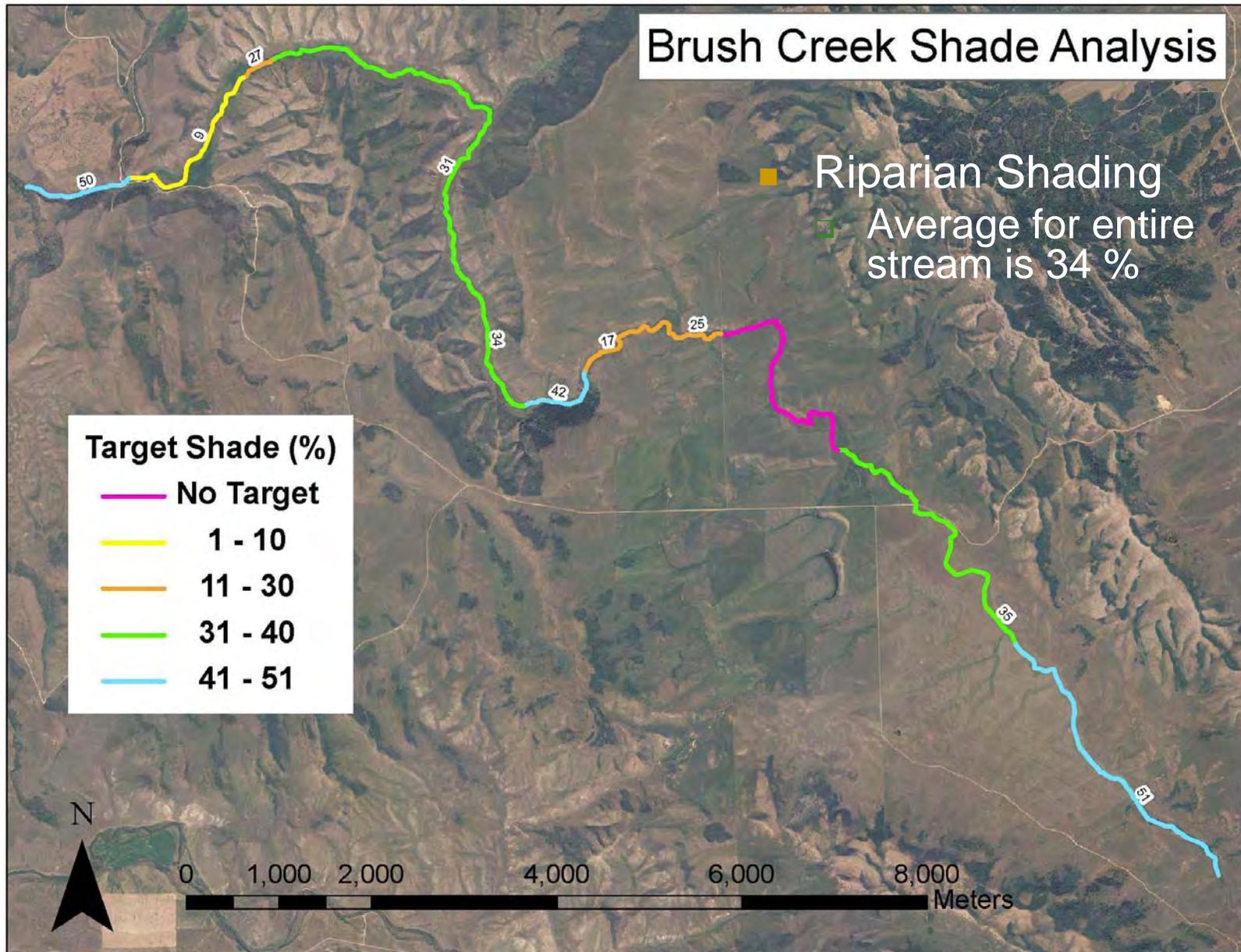
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# Nutrient Targets



- Total Phosphorous
  - 0.1 mg/L
  
- Nitrogen (Nitrate + Nitrite)
  - 0.3 mg/L

# Temperature Targets



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# Water Quality and Beneficial Use Status

- Beneficial Uses

- Salmonid Spawning
- Cold Water Aquatic Life
- Secondary Contact Recreation
- Primary Contact Recreation
- Agricultural Water Supply
- Domestic Water Supply



- Summary and Analysis of Water Quality Data

- BURP, DEQ monitoring, Mines, BLM (PFC), USFS (TMDL monitoring), others

- Changes to Subbasin Characteristics

- None that we are aware of
-

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# Review of Implementation Plan and Activities

- Participating Agencies
    - Idaho Soil Conservation Commission
    - BLM
    - Caribou/Targhee National Forest
    - Idaho Department of Lands
    - Idaho Department of Transportation
  - Planned Activities
  - Accomplished Activities
  - Future Strategies
  - Planned Time Frames
-

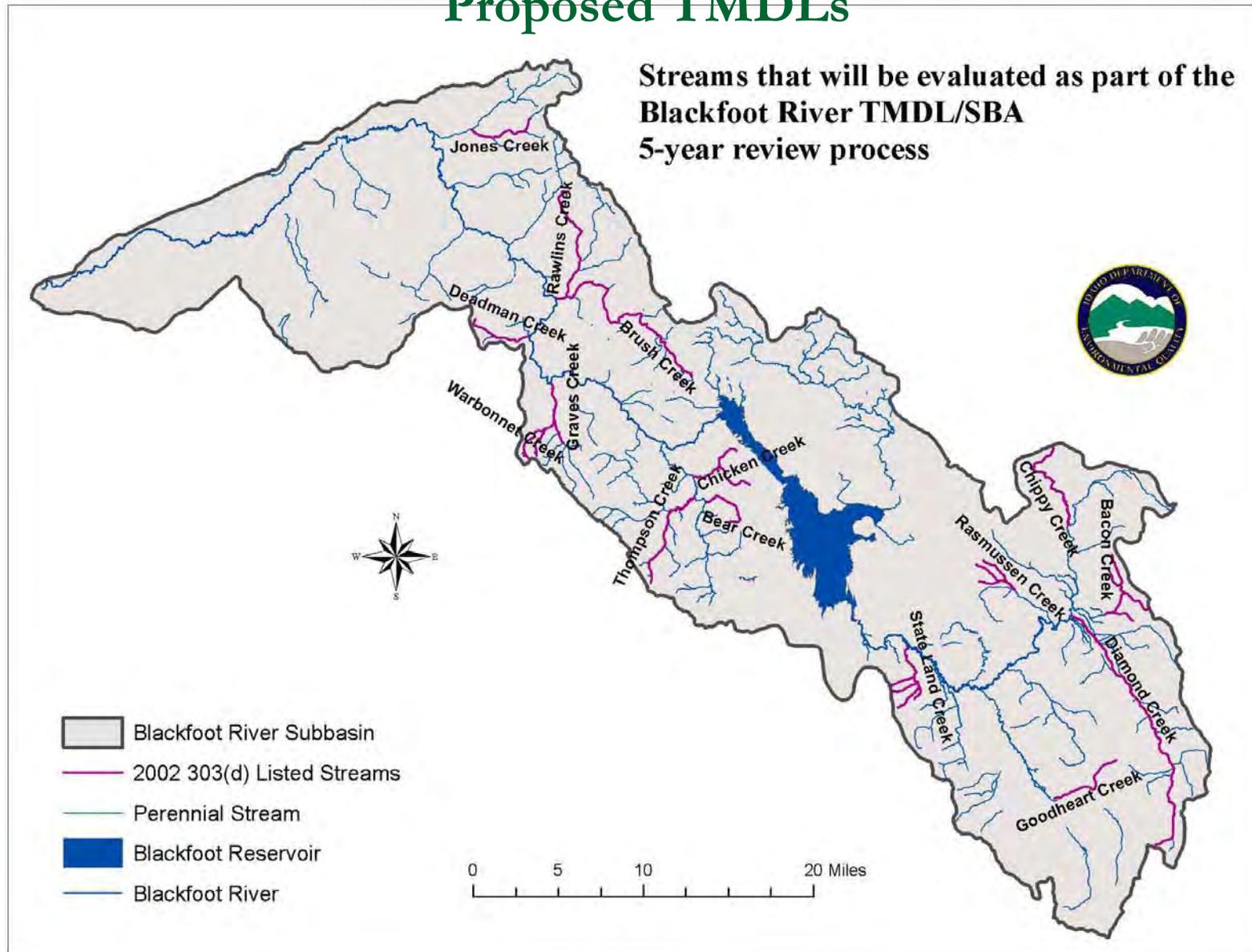
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# Summary and Recommendations

- Summary of all sections above
  - Make recommendations based on findings in Report
    - Modify targets
    - Write new TMDLs
    - Modify implementation plan
    - Etc
-

# Summary and Recommendations

## Proposed TMDLs



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# Summary and Recommendations

- Proposed TMDLs
    - Based on 2002 303(d) list
      - 15 Proposed TMDLs
        - 12 sediment
        - 3 bacteria
    - May add more from 2008 draft Integrated Report
      - Temperature and DO on the upper Blackfoot
      - More sediment
      - More bacteria
-

# Summary and Recommendations

## Proposed TMDLs

<b>Waterbody</b>	<b>Segment</b>	<b>2002 303(d) listed Pollutant(s)<sup>1</sup></b>
Bacon Creek <sup>2</sup> (upper)	Headwaters to USFS boundary	sediment
Bear Creek	Headwaters to mouth	sediment
Brush Creek	Headwaters to mouth	bacteria
Chicken Creek	Headwaters to mouth	sediment
Chippy Creek (lower)	3 <sup>rd</sup> order section to mouth	sediment
Deadman Creek	Headwaters to mouth	sediment
Diamond Creek	Headwaters to mouth	bacteria
Goodheart Creek	Headwaters to mouth	sediment
Grave Creek	Headwaters to mouth	sediment
Warbonnet Creek	Headwaters to mouth	sediment
Jones Creek	Headwaters to mouth	sediment
Rasmussen Creek	HW to Angus Creek	sediment
Rawlins Creek	Headwaters to mouth	pathogen
State Land Creek	Headwaters to mouth	sediment
Thompson Creek	Headwaters to mouth	sediment

<sup>1</sup> Metals and Selenium 2002 303(d) listings will be reviewed for TMDL development at a later date. Streams with 2002 selenium and/or metals 303 (d) listings are: Blackfoot River (Diamond Creek to Slug Creek), Dry Valley Creek, Maybe Creek, Mill Canyon Creek, and Spring Creek.

<sup>2</sup>Approved sediment TMDL (2002) for lower Bacon Creek

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# What about Selenium?

- DEQ will not be addressing selenium TMDLs as part of the 5-year review



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# What we do have?

- ❑ BLM
    - Proper Functioning Condition
  - ❑ Caribou/Targhee NF
    - TMDL monitoring report (2004)
    - BMP reviews
  - ❑ Mining
    - Routine reports
-

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# What do we need?

- Major changes in watershed
  - Water quality data
    - Routine monitoring
    - Implementation monitoring
    - Biological monitoring
    - other
  - Implementation activities
    - What has been done?
    - Planned activities
    - Time frames?
-

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# Our Approach to 5-Year Review

- WAG participation as per HB 145
  - Review existing WQ data
  - Review implementation progress
  - Make recommendations based on data and Integrated Report
  - Provide draft of 5-year review
  - Submit to DEQ State Office
  - Begin work on recommendations
-

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## Where are we?

- Working on Draft 5-Year Review
  - WAG Coordination
  - Have collected WQ data for 2002 listed streams
  - Reviewing data provided by agencies
  - Trying to facilitate implementation
-

# Questions/Comments?



# WAG Web Page

[http://www.deq.idaho.gov/about/regions/blackfoot\\_river\\_wag/index.cfm](http://www.deq.idaho.gov/about/regions/blackfoot_river_wag/index.cfm)

index.cfm - Windows Internet Explorer

http://www.deq.idaho.gov/about/regions/blackfoot\_river\_wag/index.cfm

Idaho Department of Environmental Quality

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DEQ Pocatello  
Regional Office  
444 Hospital Way #300  
Pocatello, ID 83201  
ph: (208) 236-6160  
fx: (208) 236-6168

## About DEQ's Pocatello Region: Blackfoot River Watershed Advisory Group (WAG)

Content on this page is provided for informational purposes while the Blackfoot River Watershed Advisory Group (WAG) and DEQ conduct a Five-Year Review of the Blackfoot River Subbasin Assessment (SBA), Total Maximum Daily Load (TMDL), and Implementation Plan.

*Note:* All of these documents are considered draft and are subject to change. The goal of providing these documents at WAG meetings and on this Web page is to ensure citizens have the opportunity to provide input as the documents are developed.

### Upcoming Meeting Date

Thursday, November 13, 2008, 10 a.m.

DEQ Pocatello Regional Office  
Snake River Conference Room  
444 Hospital Way #300  
Pocatello, ID  
> [Link to Agenda.](#)

*Directions from Pocatello's Clark Street Exit off I-15:* From Interstate 15 take the Clark Street Exit (Exit #69) and head east. Follow Clark Street east for approximately 0.5 miles. Turn right (south) on Hospital Way and take the first left on Toscano Way into the Tuscany Plaza. The DEQ building is the first building on the north side of Toscano Way (#300).

### Background

- > [Blackfoot River Subbasin Assessment and Total Maximum Daily Loads](#)
- > [Blackfoot River TMDL Implementation Plan](#)
- > [Brush Creek Temperature TMDL Addendum](#)
- > [Map and List of Proposed TMDL Streams](#)
- > [List of Approved TMDL Streams](#)
- > [Overview of TMDL Process](#)
- > [WAG Background Information](#)
- > [WAG Invitation Letter](#)

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