

Known Irrigation Uses in Current CBM Development Basins of Wyoming Last Updated: 12/31/08

The following list includes those irrigation uses which are located within current coal bed methane development areas, and which are currently known by the Wyoming DEQ to warrant protection for water quality under Chapter 1, Section 20 of the Wyoming Water Quality Rules and Regulations. This irrigation list may be updated periodically to reflect new information as it becomes available. This is not intended as a list of SEO-filed water appropriations.

Tier 2 study reports are available in .pdf format from the CBM Water Quality Technical Reference Bibliography, which can be found at the following link:

http://deq.state.wy.us/wqd/WYPDES_Permitting/WYPDES_cbm/Pages/CBM_Watershed_Permitting/Bibliography/CBMBibliography.asp

DRAINAGE	MOST DOWN-STREAM POINT OF IRRIGATION	EC LIMIT (µmhos/cm) ESTABLISHED BY SECTION 20 INFORMATION	COMMENT
LITTLE POWDER RIVER BASIN			
Horse Creek (includes Spring Creek and Hay Creek)	Section 22 T55N-R71W	2,770	Tier 2 study using soil samples
Rawhide Creek	Section 26 T52N-R72W	3,175	Tier 2 study using water quality samples
Whitetail Creek	Section 9 T55N-R72W	2,410	Tier 2 study using soil samples
Wildcat Creek	Section 5 T54N-R71W	EC 2,500 µmhos/cm (during irrigable flow)	Limits based on Wildcat Creek Settlement Agreement
POWDER RIVER BASIN			
Barber Creek (discharges above Maycock irrigation only)	Section 17 T50N-R76W	3,000	Tier 1 default values
Barber Creek (discharges below Maycock irrigation)	N/A	7,500	Waiver submitted by landowner (Powder River Ranch)
Beaver Creek	Sections 3 T47N-R76W	5,075	Tier 2 study using soil samples
Bitter Creek	Section 8 T54N-R74W	2,920	Tier 2 study using soil samples
Clear Creek	Section 31 T57N-R76W	variable	Protection of Clear Creek ambient water quality, limits dependent on stream reach and season

DRAINAGE	MOST DOWN-STREAM POINT OF IRRIGATION	EC LIMIT (µmhos/cm) ESTABLISHED BY SECTION 20 INFORMATION	COMMENT
Cottonwood Creek (tributary to Dry Fork Powder River)	Section 19 T43N-R76W	2,800/1,330	Tier 2 soil sample studies in conjunction with landowner waiver. Permittee must contain in reservoirs that only overtop during storm event to receive the EC limit of 2800. Direct discharge facilities will receive EC limit of 1,330 based on Tier 1 default values.
Collins Draw (tributary to Dry Fork Powder River)	Section 26 T43N-R76W	2,800/1,330	Tier 2 soil sample studies in conjunction with landowner waiver. Permittee must contain in reservoirs that only overtop during storm event to receive the EC limit of 2800. Direct discharge facilities will receive EC limit of 1,330 based on Tier 1 default values.
Cottonwood Creek (tributary to Powder River)	Section 8 T53N-R77W	1,330	Tier 1 default values
Crazy Woman Creek	Section 16 T52N-R77W	variable	Based on protection of ambient Crazy Woman Creek and Powder River water quality; EC limits vary by month
Cross H Creek	Section 11 T55N-R77W	1,330	Tier 1 default values
Dead Horse Creek	Section 16 T49N-R77W	2,315	Tier 2 study using soil samples
Deadhorse Creek (near SA Creek)	Section 6 T57N-R75W	1,330	Tier 1 default values
Dry Creek	Section 32 T50N-R77W	7,500	Conditional waiver submitted by landowner.
Dry Fork Powder River (mainstem)	Section 11 T43N-R77W	3,570	Tier 2 study using soil samples
Fortification Creek	Section 9 T51N-R76W	2,445	Tier 2 study using soil samples
Fourmile Creek	Section 34 T48N-R79W (North Fork Fourmile Creek) and Section 7 T47N-R78W (Whiskey Draw)	3,000	Tier 1 default values
Ivy Creek	Section 13 T56N-R77W	1,330	Tier 1 default values
Joe Creek	Section 36 T56N-R77W	1,330	Tier 1 default values
LX Bar Creek	N/A	7,500	Bypass constructed around downstream irrigation; irrigation use removed.

DRAINAGE	MOST DOWN-STREAM POINT OF IRRIGATION	EC LIMIT (µmhos/cm) ESTABLISHED BY SECTION 20 INFORMATION	COMMENT
Middle Fork Powder River	Section 13 T43N-R81W	1,330	Tier 1 default values
Middle Prong Wild Horse Creek	confluence of Middle Prong Wild Horse Creek with Wild Horse Creek	3,260	Tier 2 study using soil samples
Pumpkin Creek	Section 7 T46N-R75W (North Prong Pumpkin Creek) and Section 11 T45N-R76W (South Prong Pumpkin Creek)	2,200	Tier 1 default values
SA Creek	Section 7 T57N-R75W	7,500/1,330	Bypass constructed. EC limit of 7,500 if using reservoirs that only overtop during storm event and if located above irrigation bypass; EC limit 1,330 if direct discharging, or for any discharge located downstream of bypass
Spotted Horse Creek	Section 7 T56N-R76W	2,680	Tier 2 study using soil samples
UET to Powder River (S7,12, T57N-R76W)	Section 12 T57N-R76W	1,330/7,500	EC limit 7,500 if using overtopping reservoirs; EC limit 1,330 if direct discharging; conditional waiver submitted by landowner (Bow and Arrow Ranch)
UETs to Powder River (S21,T57N-R76W)	Section 21 T57N-R76W	7,500	Waiver submitted by landowner (Wilson)
Wild Horse Creek	Section 29 T54N-R767W	2,560	Tier 2 study using soil samples
Willow Creek	Section 23 T45N-R77	1,330	Tier 1 default values
TONGUE RIVER BASIN			
Badger Creek	Section 34 T58N-R82W	2,440	Tier 2 study using USGS water quality data
Hanging Woman Creek	Section 6 T57N-R79W	2,440	Tier 2 study using USGS water quality data
Tributaries to Prairie Dog Creek with irrigation (Wildcat Creek, Dutch Creek)	multiple	1,330	Tier 1 default values
Prairie Dog Creek	Section 23 T58N-R83W	1,215	Tier 2 study using USGS water quality data
OTHER AREAS			
Cheyenne River Basin (all)	unknown	2,000	
Belle Fourche River Basin (all)	unknown	2,000	Section 20 information provided
North Platte River	unknown	TBD	

DRAINAGE	MOST DOWN- STREAM POINT OF IRRIGATION	EC LIMIT (μ mhos/cm) ESTABLISHED BY SECTION 20 INFORMATION	COMMENT
Little Snake - Main	Section 15 T12N- R89W	TBD	
Little Snake - Muddy Creek	Section 4 T12N- R91W	TBD	