APPENDIX A – FIGURES AND TABLES

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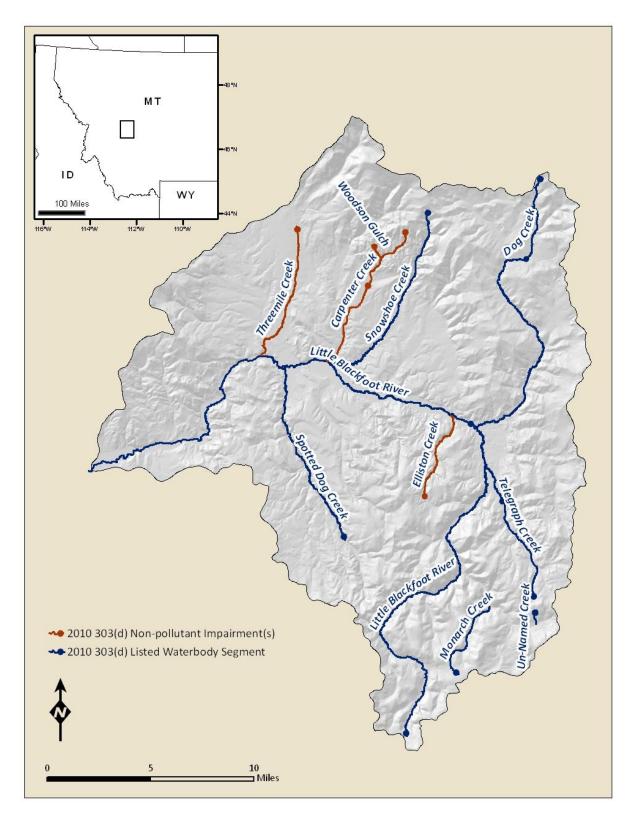


Figure A-1. Waterbodies in the Little Blackfoot TPA included on the 2010 303(d) List.

Waterbody & Location			Pollutant		
Description	Waterbody ID	Impairment Cause	Category	Impaired Use	Impairment Cause Status
		Alteration in stream-side			
	MT76G004_092	or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed via restoration plan in
CARPENTER CREEK, Basin		covers	Non-Pollutant	Fishery	this doc; not linked to a TMDL
Creek to mouth (Little		Other anthropogenic	Not Applicable:	Aquatic Life, Cold Water	Addressed via restoration plan in
Blackfoot River)		substrate alterations	Non-Pollutant	Fishery	this doc; not linked to a TMDL
		Physical substrate habitat	Not Applicable:	Aquatic Life, Cold Water	Addressed via restoration plan in
		alterations	Non-Pollutant	Fishery	this doc; not linked to a TMDL
		Alteration in stream-side			
		or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed via restoration plan in
		covers	Non-Pollutant	Fishery	this doc; not linked to a TMDL
CARPENTER CREEK,	NAT76C004 001	Other anthropogenic	Not Applicable:	Aquatic Life, Cold Water	Addressed via restoration plan in
headwaters to Basin Creek	MT76G004_091	substrate alterations	Non-Pollutant	Fishery	this doc; not linked to a TMDL
				Aquatic Life, Cold Water	
		Physical substrate habitat	Not Applicable:	Fishery, Primary Contact	Addressed via restoration plan in
		alterations	Non-Pollutant	Recreation	this doc; not linked to a TMDL
				Aquatic Life, Cold Water	
				Fishery, Primary Contact	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Recreation	document
		Alteration in stream-side		Aquatic Life, Cold Water	
	MT76G004_071	or littoral vegetative	Not Applicable:	Fishery, Primary Contact	Addressed by sediment TMDL in
DOG CREEK, headwaters to		covers	Non-Pollutant	Recreation	this document
Meadow Creek				Aquatic Life, Cold Water	Metals TMDL contained in this
		Arsenic	Metals	Fishery	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Lead	Metals	Fishery	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Zinc	Metals	Fishery	document
DOG CREEK, Meadow Creek to mouth (Little	MT76G004_072			Aquatic Life, Cold Water	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Fishery	document
		Alteration in stream-side			
		or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment and
Blackfoot River)		covers	Non-Pollutant	Fishery	nutrient TMDLs in this document
				Aquatic Life, Cold Water	Not impaired based on updated
		Nitrate/Nitrite	Nutrients	Fishery	assessment

Table A-1. 2010 IR Impaired Waterbodies, Impairment Causes, Impaired Uses, and Impairment Cause Status in the Little Blackfoot TPA					
Waterbody & Location			Pollutant		
Description	Waterbody ID	Impairment Cause	Category	Impaired Use	Impairment Cause Status
ELLISTON CREEK,		Alteration in stream-side			
headwaters to mouth	MT76G004_040	or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment and
(Little Blackfoot River)		covers	Non-Pollutant	Fishery	nutrient TMDLs in this document
				Aquatic Life, Cold Water	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Fishery	document
		Alteration in stream-side			
		or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment and
		covers	Non-Pollutant	Fishery	nutrient TMDLs in this document
LITTLE BLACKFOOT RIVER,				Aquatic Life, Cold Water	
Dog Creek to mouth (Clark	MT76G004 010		Not Applicable:	Fishery, Primary Contact	Addressed via restoration plan in
Fork River)	, 0 000010	Low flow alterations	Non-Pollutant	Recreation	this doc; not linked to a TMDL
.,				Aquatic Life, Cold Water	Not impaired based on updated
		Copper	Metals	Fishery, Drinking Water	assessment
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Lead	Metals	Fishery, Drinking Water	document
				Aquatic Life, Cold Water	Not impaired based on updated
		Nitrate/Nitrite	Nutrients	Fishery	assessment
				Aquatic Life, Cold Water	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Fishery	document
		Alteration in stream-side			
LITTLE BLACKFOOT RIVER,		or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment TMDL in
the headwaters to Dog	MT76G004_020	covers	Non-Pollutant	Fishery	this document
Creek				Aquatic Life, Cold Water	Metals TMDL contained in this
		Arsenic	Metals	Fishery	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Cyanide	Metals	Fishery	document

Waterbody & Location			Pollutant		
Description	Waterbody ID	Impairment Cause	Category	Impaired Use	Impairment Cause Status
				Aquatic Life, Cold Water	
				Fishery, Primary Contact	Not impaired based on updated
		Arsenic	Metals	Recreation	assessment
				Aquatic Life, Cold Water	
				Fishery, Primary Contact	Metals TMDL contained in this
		Copper	Metals	Recreation	document
				Aquatic Life, Cold Water	
MONADOU CDEEK				Fishery, Primary Contact	Metals TMDL contained in this
MONARCH CREEK, headwaters to mouth	MT76G004 060	Lead	Metals	Recreation	document
(Ontario Creek)	W1176G004_060			Aquatic Life, Cold Water	
(Ontario Creek)				Fishery, Primary Contact	Metals TMDL contained in this
		Mercury	Metals	Recreation	document
				Aquatic Life, Cold Water	
				Fishery, Primary Contact	Addressed by metals TMDLs in
		pН	Metals	Recreation	this document (surrogate)
				Aquatic Life, Cold Water	
				Fishery, Primary Contact	Not impaired based on updated
		Selenium	Metals	Recreation	assessment
				Aquatic Life, Cold Water	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Fishery	document
SNOWSHOE CREEK, headwaters to mouth (Little Blackfoot River)		Alteration in stream-side			
		or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment and
		covers	Non-Pollutant	Fishery	nutrient TMDLs in this document
	MT76G004_080			Aquatic Life, Cold Water	
			Not Applicable:	Fishery, Primary Contact	Addressed via restoration plan in
		Low flow alterations	Non-Pollutant	Recreation	this doc; not linked to a TMDL
				Aquatic Life, Cold Water	
				Fishery, Primary Contact	Nitrate/Nitrite TMDL contained
		Nitrate/Nitrite	Nutrients	Recreation	in this document

Waterbody & Location			Pollutant		
Description	Waterbody ID	Impairment Cause	Category	Impaired Use	Impairment Cause Status
				Aquatic Life, Cold Water	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Fishery	document
SPOTTED DOG CREEK,		Alteration in stream-side			
forest boundary to mouth	MT76G004_032	or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment and
(Little Blackfoot River)		covers	Non-Pollutant	Fishery	nutrient TMDLs in this document
				Aquatic Life, Cold Water	TP TMDL contained in this
		Total Phosphorus	Nutrients	Fishery	document
TELEGRAPH CREEK, Hahn					Metals TMDL contained in this
Creek to mouth (Little	MT76G004 052	Lead	Metals	Drinking Water	document
Blackfoot River)	1011700004_032				Metals TMDL contained in this
Blackfoot River)		Mercury	Metals	Drinking Water	document
	MT76G004_051			Aquatic Life, Cold Water	Sediment TMDL contained in this
		Sedimentation/Siltation	Sediment	Fishery	document
		Alteration in stream-side			
		or littoral vegetative		Aquatic Life, Cold Water	Addressed by sediment TMDL in
		covers		Fishery	this document
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Arsenic	Metals	Fishery	document
TELEGRAPH CREEK,				Aquatic Life, Cold Water	Metals TMDL contained in this
headwaters to Hahn Creek		Beryllium	Metals	Fishery	document
Headwaters to Haim Creek				Aquatic Life, Cold Water	Metals TMDL contained in this
		Cadmium	Metals	Fishery	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Copper	Metals	Fishery	document
				Aquatic Life, Cold Water	Not impaired based on updated
		Iron	Metals	Fishery	assessment
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Zinc	Metals	Fishery	document
	MT76G004_112	Alteration in stream-side			
THREEMILE CREEK, Quigley		or littoral vegetative	Not Applicable:	Aquatic Life, Cold Water	Addressed by sediment and
Ranch Reservoir to mouth		covers	Non-Pollutant	Fishery	nutrient TMDLs in this document
(Little Blackfoot River)	1411/00004_112			Aquatic Life, Cold Water	
(LITTLE BIACKTOOT RIVER)			Not Applicable:	Fishery, Primary Contact	Addressed via restoration plan in
		Low flow alterations	Non-Pollutant	Recreation	this doc; not linked to a TMDL

Table A-1. 2010 IR Impaired Waterbodies, Impairment Causes, Impaired Uses, and Impairment Cause Status in the Little Blackfoot TPA					
Waterbody & Location			Pollutant		
Description	Waterbody ID	Impairment Cause	Category	Impaired Use	Impairment Cause Status
					Metals TMDL contained in this
		Arsenic	Metals	Drinking Water	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Cadmium	Metals	Fishery	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
UN-NAMED CREEK, headwaters to mouth (Ontario Creek), T8N R6W S27	MT766006 010	Copper	Metals	Fishery	document
				Aquatic Life, Cold Water	Metals TMDL contained in this
	MT76G006_010	Lead	Metals	Fishery	document
					Metals TMDL contained in this
		Mercury	Metals	Drinking Water	document
				Aquatic Life, Cold Water	Addressed by metals TMDLs in
		рН	Metals	Fishery	this document (surrogate)
				Aquatic Life, Cold Water	Metals TMDL contained in this
		Zinc	Metals	Fishery	document
WOODSON GULCH,				Aquatic Life, Cold Water	
headwaters to mouth		Physical substrate habitat	Not Applicable:	Fishery, Primary Contact	Addressed via restoration plan in
(Carpenter Creek)	MT76G004_100	alterations	Non-Pollutant	Recreation	this doc; not linked to a TMDL

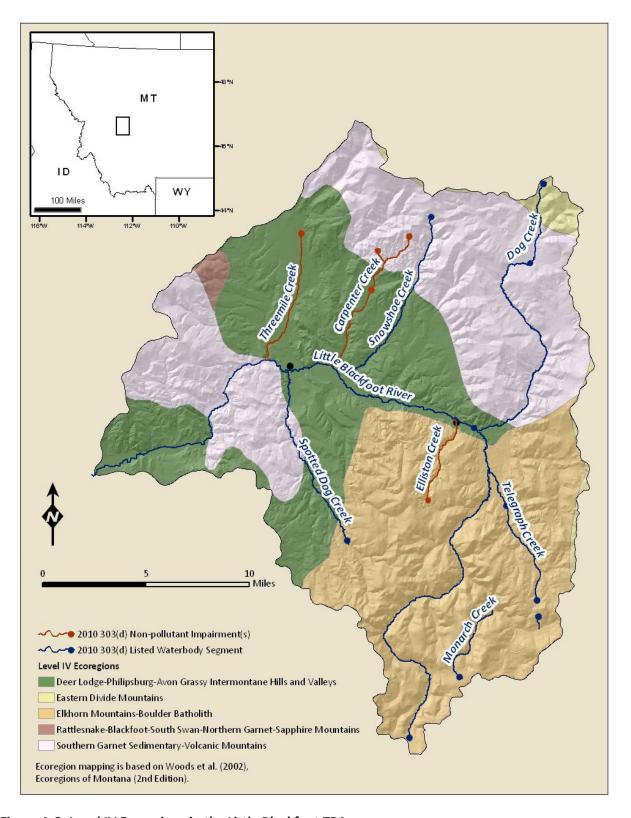


Figure A-2. Level IV Ecoregions in the Little Blackfoot TPA.

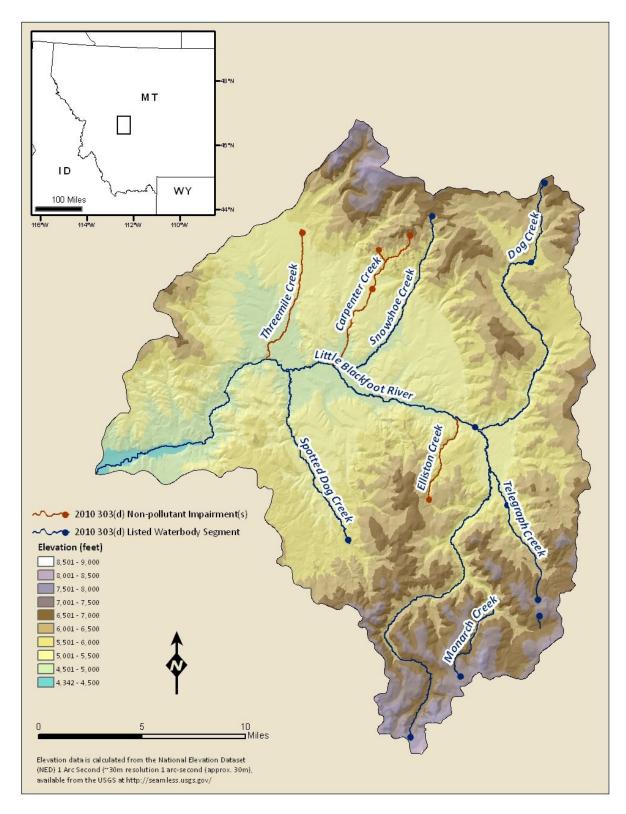


Figure A-3. Elevation data for the Little Blackfoot TPA.

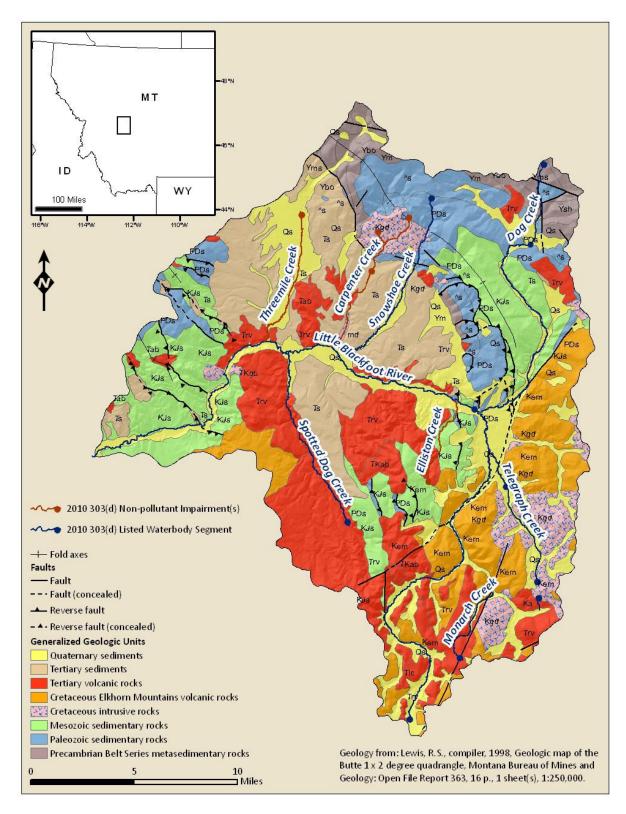


Figure A-4. Geology of the Little Blackfoot TPA.

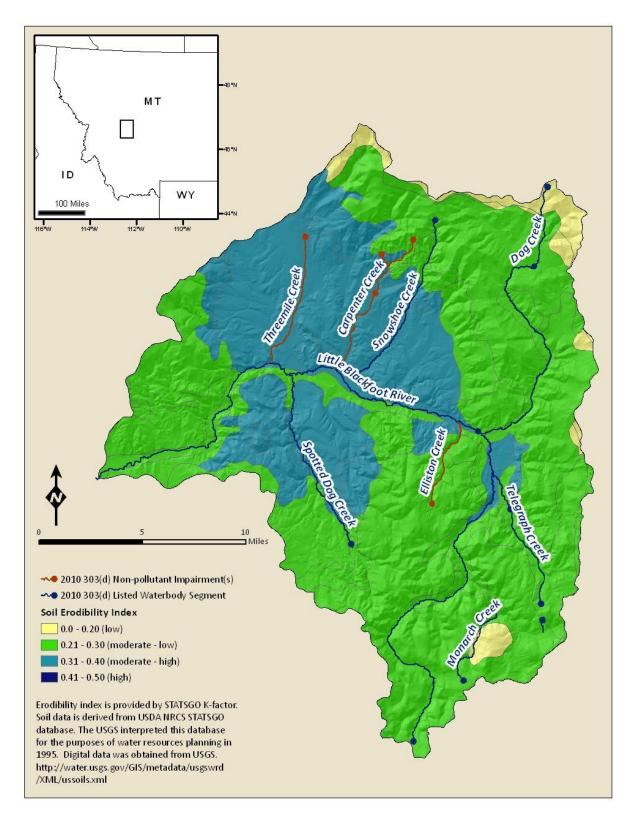


Figure A-5. Distribution of erosion susceptibility in the Little Blackfoot TPA.

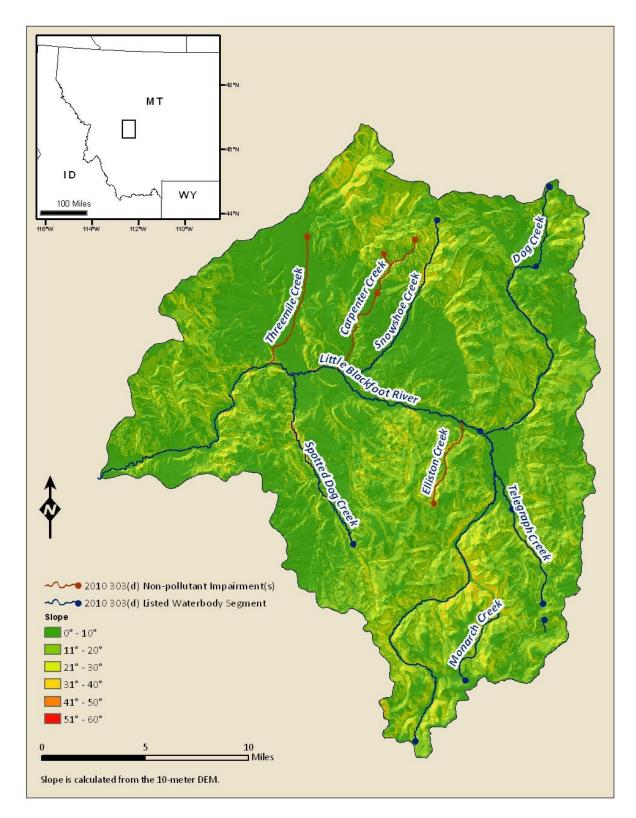


Figure A-6. Soil slope values for the Little Blackfoot TPA.

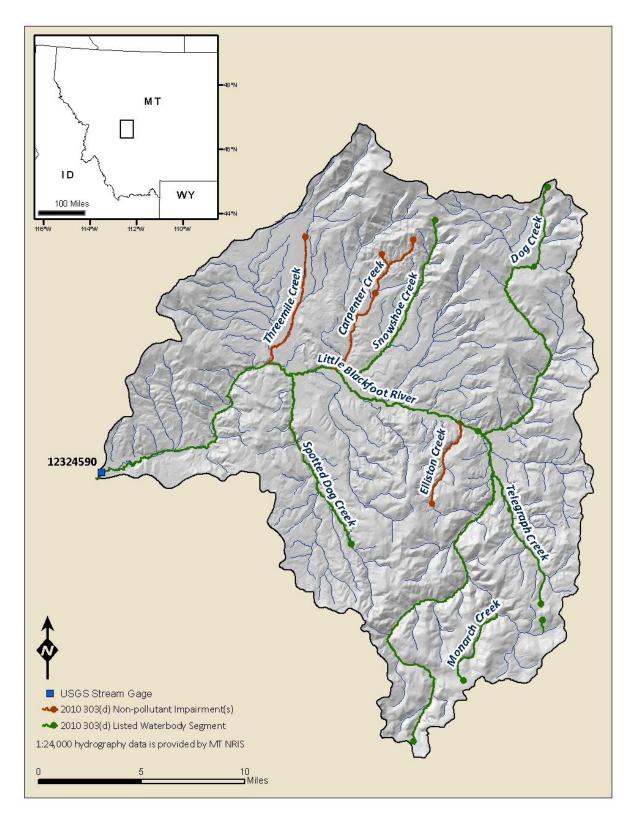


Figure A-7. Surface hydrography of the Little Blackfoot TPA at 1:24000 and the USGS gage.

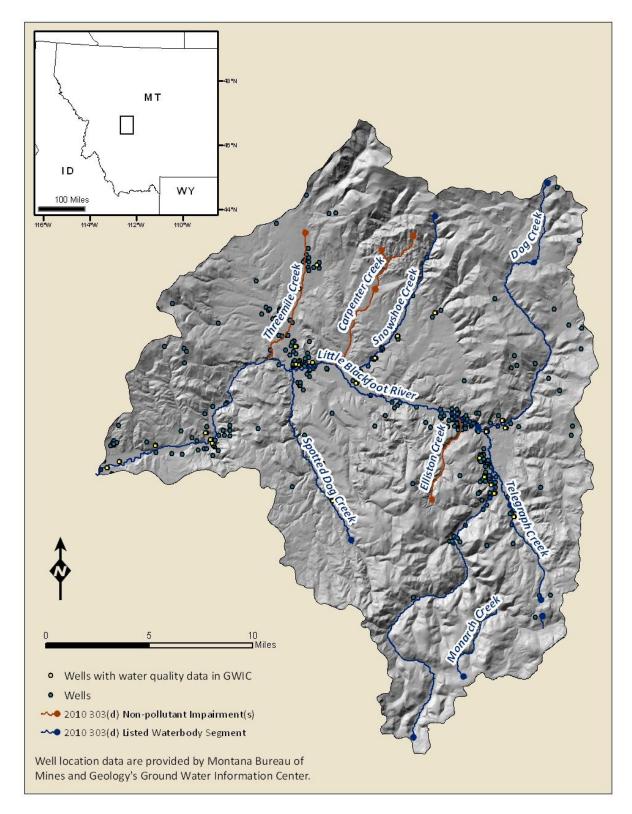


Figure A-8. Location of wells and those with water quality data based on the GWIC database.

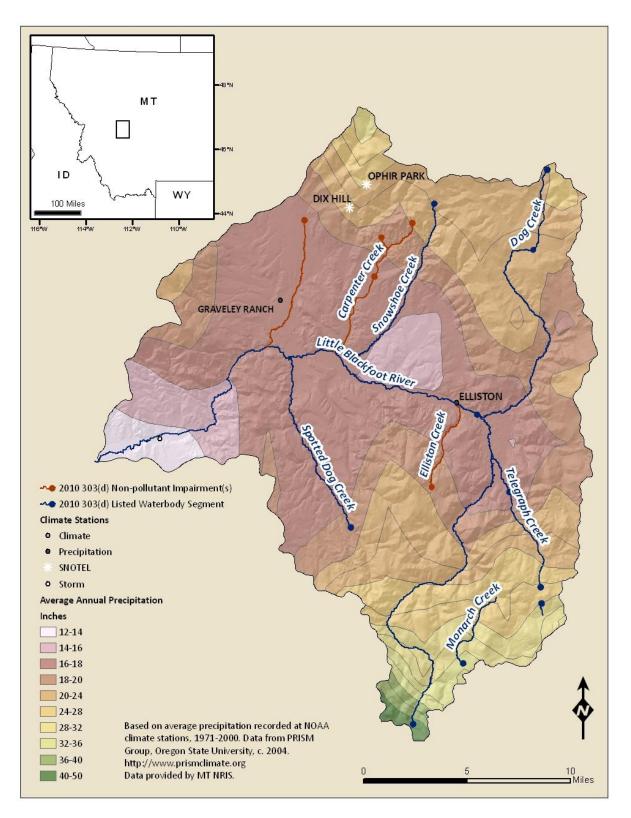


Figure A-9. Distribution of average annual precipitation within the Little Blackfoot TPA.

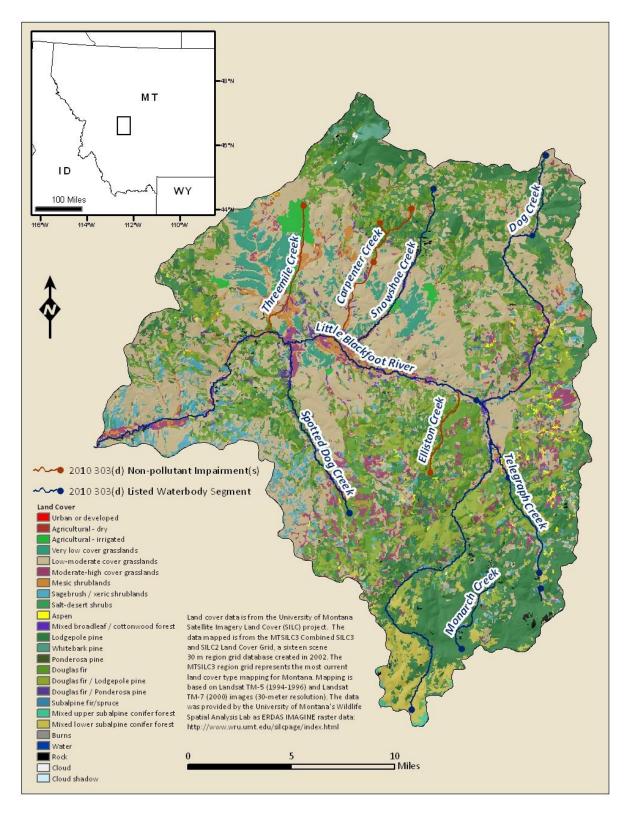


Figure A-10. Land cover distribution within the Little Blackfoot TPA from University of Montana.

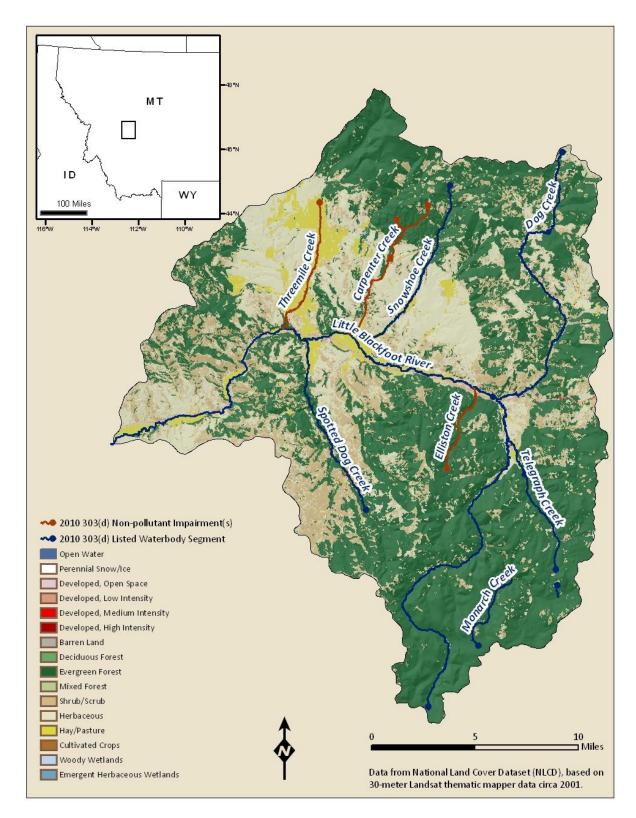


Figure A-11. NLCD land cover distribution within the Little Blackfoot TPA.

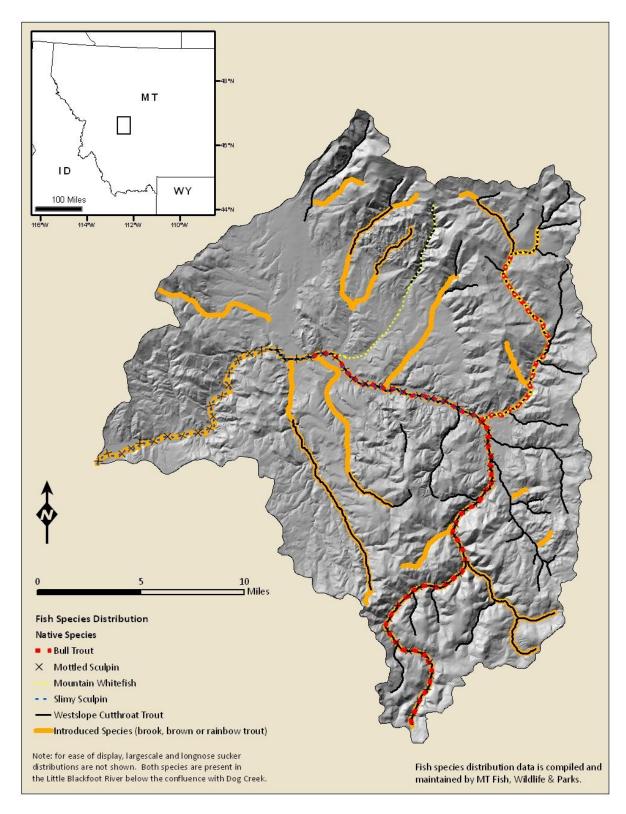


Figure A-12. Fish species distribution within the Little Blackfoot TPA.

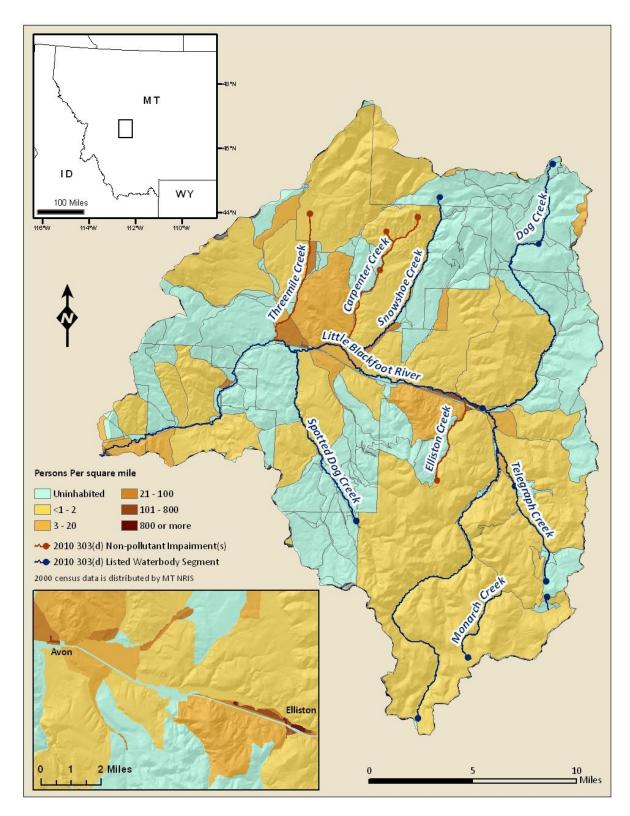


Figure A-13. Population density within the Little Blackfoot TPA.

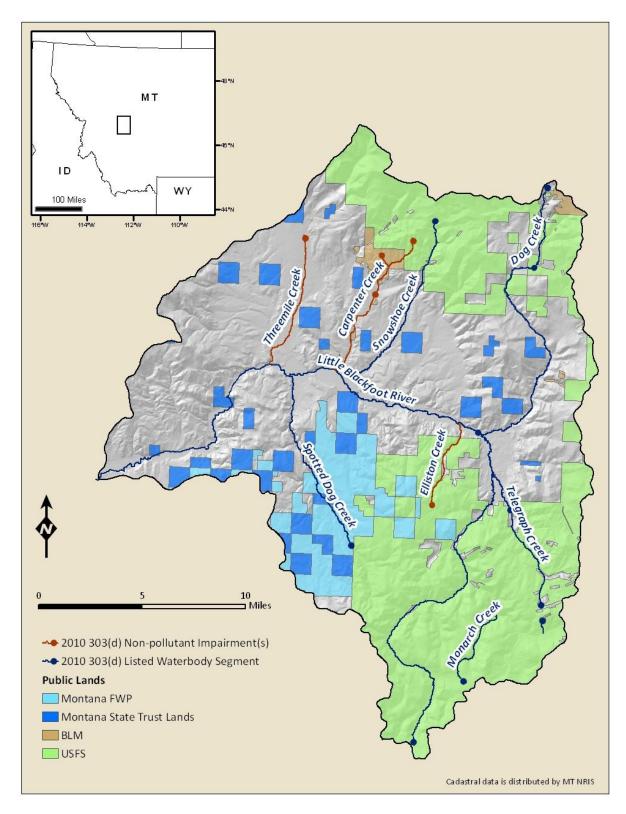


Figure A-14. Public land ownership within the Little Blackfoot TPA.

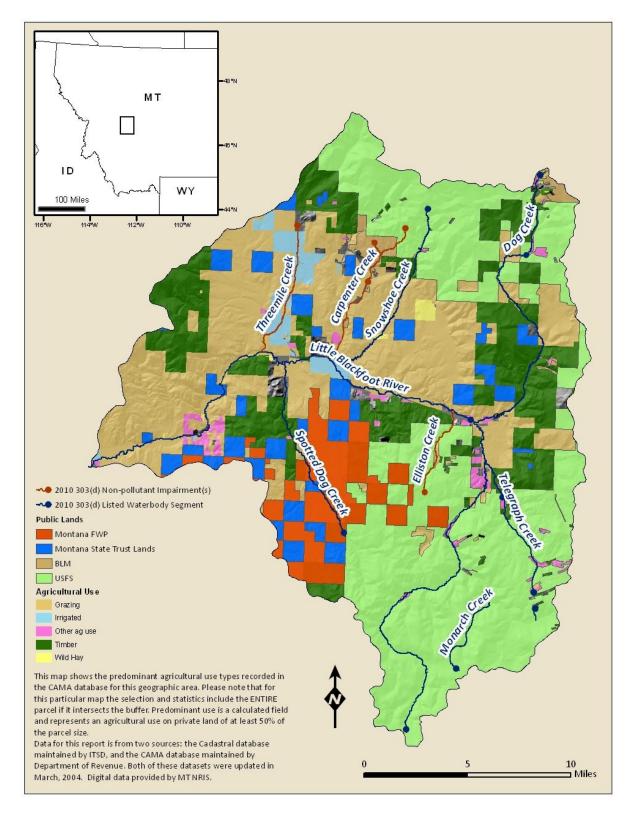


Figure A-15. Land ownership and agricultural land use distribution within the Little Blackfoot TPA.

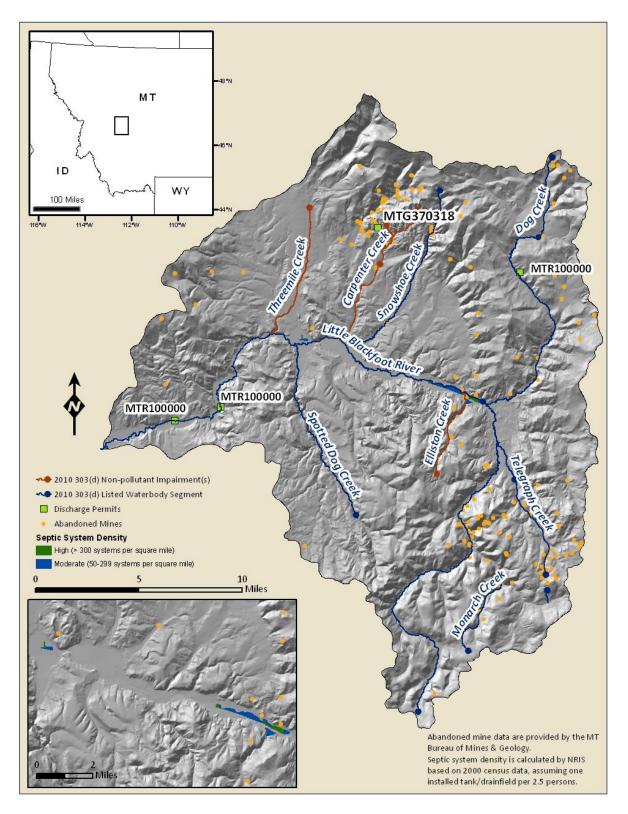


Figure A-16. Abandoned mines, NPDES permit locations, and septic system density within the Little Blackfoot TPA.

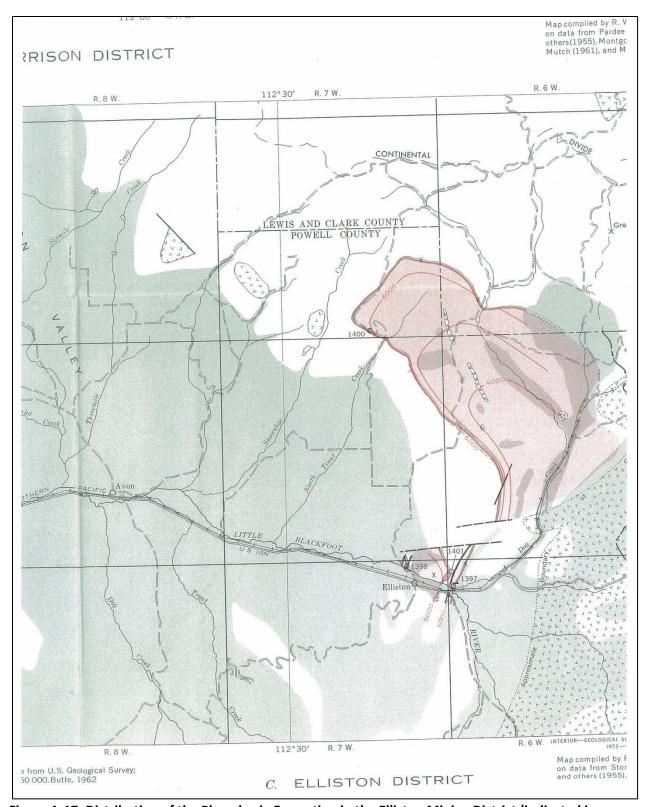


Figure A-17. Distribution of the Phosphoria Formation in the Elliston Mining District (indicated in pink). Copied from (Swanson, 1973).

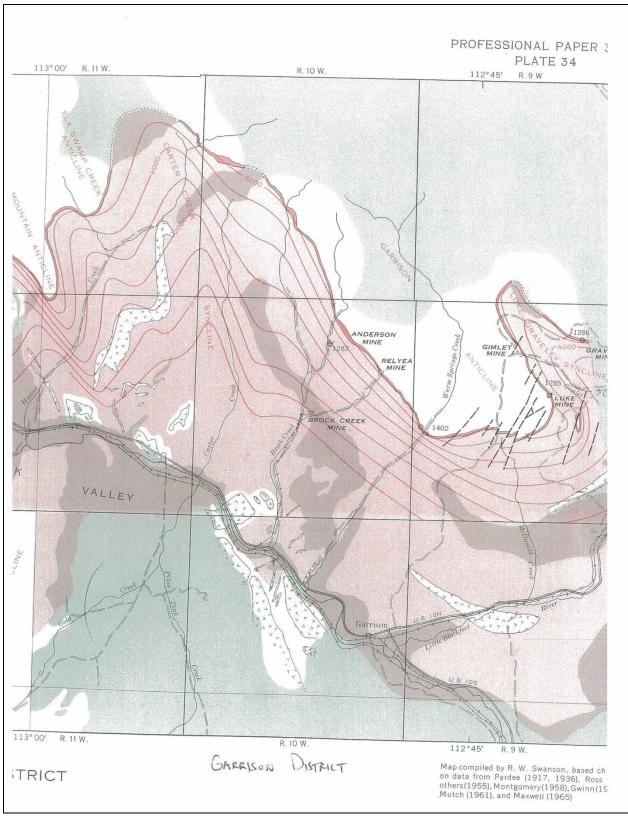


Figure A-18. Distribution of the Phosphoria Formation in the Garrison Mining District (indicated in pink). Copied from (Swanson, 1973).