

**Appendix F: Effects of Actions That Have Undergone Section 7 Consultation for Bull Trout under the Endangered Species in the Clark Fork River Management Unit (August 2003-July 2006)**

Effects of actions that have undergone section 7 consultation for bull trout under the Endangered Species Act in the Clark Fork River Management Unit (August 2003-July2006).

Core Area (Local Populations)	Action Agency Consultation Type	Date Issued	Type of Action	Duration of Action/Take	Frequency	Effect	Type	Surrogate	Comments	Long Term Beneficial Effect
<b>Clark Fork Section 2 (Rattlesnake Petty Fish Trout Cedar Creeks, St. Regis River)</b>	Frenchtown Face FS, Individual Project	4/4/05	Forest Management (timber harvest roads, culverts, rehab mine site)	2005 to 2010	Frequent	Sediment, competition	Egg, Larval, Juvenile, Adult	36 miles	Ninemile Rock, Bulter, McCormick, Stony, Sixmile Long term sediment reduction and improved fish passage	X
	Lookout Pass	10/21/04	FHWA	2 months		Sediment			Long Term Loss of LWD	X
	Chunky Monkey, FS, Individual Project	12/29/04	Mining	2005 to 2006	Frequent	Sediment, reduction in habitat complexity	Egg, Larval, Juvenile,	2 miles	Ward Creek (trib to St. Regis)	
	Milltown Reservoir EPA, Fish and Wildlife Service, Batched (Milltown and Stimson dams)	12/16/04	Dam Removal	2004 to 2010	Frequent	Mechanical, stranding, sediment, water quality	Juvenile, Adult	1.4 Blackfoot, 4.5 miles Clark Fork	Main stem Clark Fork and Blackfoot Significant long term beneficial	X
	Big Creek Rehabilitation and Stimson Land Access, FS, Individual Project	02/12/04	Access for PVT Forest Management and FS roads, culverts, rehab work)	2004 to unknown PVT) 2004-2006(FS)	Frequent	Sediment,	Egg, Larval, Juvenile, Adult	Big, West Fork Big Creek	Trib to St. Regis River long term improvement on FS lands	X
	Savenac Creek	8/13/03	Bank	2003 to	Frequent	Sediment	Juvenile,	Low amount	Savenac, St	X

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		Rehabilitation Maintenance, FS, Individual Project		Stabilization	ongoing			Adult	unquantifiable	Regis long term improvement 50-75 feet of stream bank restoration	
		Big Flat and Frenchtown Irrigation Diversions, BOR Individual Project	7/7/03	Irrigation entrainment	2003 to ongoing	Continuous (while in operation (April to October	Entrainment	Juvenile, Adult	Unquantifiable	Clark Fork and Bitterroot Rivers Do to staffing storages FWS has not responded to request to discontinue measures described on the Take Statement	
		Operation Maintenance and Expansion of Snowbowl Ski Area including Road and Parking Improvements FS, Individual Project	4/28/03	Road and parking lots, ski runs	2003 to ongoing	Frequent	Sediment	Egg, Larval, Juvenile,	Butler Creek		
<b>Lower Clark Fork Core Area</b>	<b>Lower Flathead River (Post, Mission, Dry, South Fork Middle</b>	Jocko River Stream Restoration BIA S 10 permit	8/2/04	Habitat restoration	2004 to ongoing	Frequent	Sediment, mechanical	Egg, Larval, Juvenile, Adult		Long term improvement Low risk of take do to low density of BT	X
		FHWA Evaro to Polson HWY 93	3/5/04								X

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Fork North Fork, Jocko River)										
Clark Fork Section 3 (Fishtrap, West Fork Fishtrap, Creeks)	Fishtrap FS, Individual Project	10/7/05	Forest Management (timber harvest, road and culvert)	2007 to 2009	Frequent	Sediment	Egg, Larval, Juvenile, Adult	7 miles Fishtrap Creek, 5 miles West Fork Fishtrap Creek	Short term adverse Long term sediment reduction and improved fish passage	X
Noxon (Prospect, Graves, Vermillion River)	Vermillion Suction Dredge FS, Individual Project	8/13/03	Mining	2003 to 2007	Frequent	Entrainment degradation of aquatic habitat, sediment	Egg, Larval, Juvenile, Adult	Unquantifiable	low level of take due to low level of activity	
	Thomson Falls 10a1a	4/13/04	FERC, PPL	04-06		Harm and Harass (Electrofishing , trapping )	Adults		Research for passing fish (tailrace studies). Information used to pass fish in future	X
Cabinet Gorge (Rock Creek Bull River)	Kootenai Idaho panhandle and Lolo NF Land and Resource Management Plans Amendment for Motorized Access Management within the Selkirk and Cabinet-Yaak	2/9/04	Roads						No take issued to date for project conducted under this programmatic consultation	X

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	Grizzly Bear Recovery Zones, FS,									
<b>Clark Fork Section 1 (upstream of Milltown Dam)</b>	Powell County Bridges	08/10 04	FHWA	3yr		Sediment			Restore: Floodplain connectivity	X
<b>Rock Creek</b>	LNF Rock Creek Fuels Reduction	05/08/03	Fuel reduction	2003-10		Sediment		Miles of stream	(Sediment) incidental take of bull trout in the form of harm, harassment or mortality related to on the expected short-term degradation of aquatic habitat parameters as a result of increased activity (Rock Cr) (Sediment) incidental take of bull trout in the form of harm, harassment or mortality related to on the expected short-term degradation of aquatic habitat parameters as a result of increased activity created sediment	X

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									(Gilbert, Brewster, Ranch, Butte Cabin, Wahlquist, Cougar, Hogback, Grizzly Dalles, Bobcat, Fourth of July, Little Hogback, Howell, Creeks, Waho Gulch minor (road BMP, fish passage improvement))	
<b>Blackfoot</b>	Snow Talon Salvage	12/15/04	Salvage	2004-09	Frequent	Sediment	Egg, Larval, Juvenile, Adult	9.4 miles of stream	Short-term sediment effects long-term benefits	X
	Lincoln complex Fires Emergency	11/03/04	Emergency fire	Unquantifiable	Frequent	Sediment in water quality	Egg, Larval, Juvenile, Adult		Mortality of fish in copper Creek from fire retardant	X
<b>Clearwater River and Clearwater Lake chain</b>	Seeley Fuels Reduction	03/01/04	Fuels reduction	2004-08	Frequent				Take would occur in Alva Richmond Clearwater less Clearwater Findell Murphy Benedict Rice dear Yankee Seeley Morrell	X
<b>Bitterroot River</b>	Conner North-South FHWA	6/24/04		(3yr)		Sediment			Restore Major: Floodplain Connectivity	X

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	Hamilton Florence	4/22/03	FHWA	6 yr		Sediment			Restore Major: Floodplain Connectivity	X
	West Side Reservoir Post Fire project	12/21/04	Fire Salvage	6 yr		Sediment (limited in spawning habitat)			Short-term minor degrade long-term restore: Subpopulation Size, Sediment, Substrate Embeddedness, Pool Frequency and Quality	X
	Burned Area Road Maintenance Projects	07/01/04	Road BMP	6 yr		Sediment			Hungry Horse; Swan L.; FL.  Short-term D Long-term R. - Subpop. Size, Sediment, Substrate Embeddedness, Pool Freq. and Quality. Restore: Drainage Netw. Incr. And RHCA's.	X
	Bob Marshall Wilderness Complex Outfitter and Guide Permit	2/9/04	Fishing/camping	30 fish a yr for 5 yrs		Harassment/trampling			Hungry Horse, Swan, Blackfoot, Big Salmon: Local pops White River, Big Salmon, Little	X

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									Salmon, Youngs, Schafer(includes Dolly Varden)	
<b>Swan Lake</b>	South Swan Grazing Allotment	8/27/04	Grazing	2004-14					harm, harassment, mortality related to localized areas of nutrient loading reduced stream bank stability and sedimentation (Barber Creek, Holland Creek below Lk)	X
<b>Flathead Lake</b>	Robert Wedge Post Fire project	09/04/04	Fire Salvage/Road Decommissioning	6 yr		Sediment (very limited in spawning habitat) no impact in Trail Cr			Minor D: Subpopulation Size; Minor D/Longterm improve Sediment, Substrate Embeddedness Pool Freq, and Quality, Road Density and Location. Restore peak and base flow and drainage network incr.	X
<b>Lake McDonald</b>	10a1A	5/5/03	Research - Gillnetting/radio telemetry	2 yr		Harm and Harrass - short-term effects	Sub-adults, adults		Long-term benefits through from findings	X



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									and management adjustments	
<b>Lower Clark Fork</b>	10a1A – Thompson Falls- PPL Montana	4/29/06	Research - Electrofishing, tagging, trapping, radio-telemetry	3 yr		Harm and Harrass - short-term effects	Sub-adults, adults		Long-term benefits from findings for fish passage development and design.	X
<b>Lake Pend Oreille</b>	Corps of Engineers Recreational water use	8/5/05	Marina development	1-2 years	July-Sept	Harm and Harrasment; sediment, noise habitat modification	Juvenile, sub-adults, adults		Adverse effects from short-term sediment input, noise from pile-driving, & habitat modification of 9.63 miles of riverine surface area and 860 feet of shoreline habitat	
	Federal Highway Administration	3/28/06	Bridge replacement	1 year	May-July	Harm and Harrass, sediment, habitat mod	Migrating adult		Sediment input impacts during construction of bridge and streambank and inchannel work. Take of one bull trout.	X

\* Frequent = activity occurs once or twice a year for a short time period (usually 1 to several days)