APPENDIX C – SEDIMENT TOTAL MAXIMUM DAILY LOADS

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ACRONYMS

Acronym	Definition
DEQ	Department of Environmental Quality (Montana)
TMDL	Total Maximum Daily Load
USGS	United States Geological Survey

C1.0 SEDIMENT

C1.1 OVERVIEW

A percent reduction based on average yearly loading was used as the primary approach for expressing the sediment Total Maximum Daily Loads (TMDLs) within this document because there is uncertainty associated with the loads derived from the source assessment, and using the estimated sediment loads alone creates a rigid perception that the loads are absolutely conclusive. However, in this appendix the TMDL is expressed using daily loads to satisfy an additional U.S. Environmental Protection Agency required TMDL element. Daily loads should not be considered absolutely conclusive and may be refined in the future as part of the adaptive management process. It is not expected that daily loads will drive implementation activities.

As the Central Clark Fork Basin Tributaries TMDL project are spans two Level III ecoregions (Northern Rockies and Middle Rockies), an approach for calculating daily sediment loads for each respective ecoregion is presented below.

C1.2 APPROACH – NORTHERN ROCKIES LEVEL III ECOREGION

The preferred approach for calculating daily sediment loads is to use a nearby water quality gage with a long-term dataset for flow and suspended sediment. Since sediment loading in the Northern Rockies Level III ecoregion portion of the Central Clark Fork Basin Tributaries TMDL Project Area is associated with nonpoint sources and stormwater related point sources, the hydrograph is assumed to be a reasonable surrogate for sediment loading to streams (i.e., peak contributions during periods of runoff and high flow). Therefore, mean daily discharge values from 10 years of record (2003-2013) at the gage on Prospect Creek at Thompson Falls, Montana (#12390700), were used to calculate daily sediment values for TMDLs in the Flat Creek, West Fork Petty Creek and Petty Creek in the Central Clark Fork Basin Tributaries TMDL Project Area. The Prospect Creek gage (#12390700) was determined to be the active gage most similar to the Flat Creek and Petty Creek drainages in terms of land cover and land use. While the Prospect Creek gage drainage area (170 sq. mi.) is much larger than the Flat Creek (45.9 sq. mi.) and the Petty Creek (59.2 sq. mi.) watersheds, Montana Department of Environmental Quality (DEQ) determined that it is the best fit of available catchment discharge data for the purposes of expressing daily sediment loads.

Using the mean of daily mean discharge values from the gage, a daily percentage relative to the mean annual discharge was calculated for each day (**Table C-1**). For each TMDL, the daily load can be calculated by multiplying the daily percentages in **Table C-1** by the total average annual load associated with the TMDL percent reductions in **Section 5.7** of the main document. For instance, the total allowable annual sediment load for the Petty Creek is 3,727.6 tons. To determine the TMDL for January 1st, 3,727.6 tons is multiplied by 0.11% which provides a daily load for Petty Creek on January 1st of 3.97 tons. To conserve resources, this appendix contains the daily loads for Petty Creek as an example (**Table C-2** and **Figure C-1**). Daily loads for all other TMDLs can be calculated by multiplying the percentages in **Table C-1** by the values in **Table C-3**. The daily loads are a composite of the allocations, but as allocations are not feasible on a daily basis, they are not contained within this appendix. If desired, daily allocations may be obtained by applying allocations provided in **Section 5.7** of the main document to the daily load.

Table C-1. USGS Stream Gage 12390700 (Prospect Creek at Thompson Falls, Montana) – Percent of Mean Annual Discharge Based on Mean of Daily Mean Discharge Values for each Day of Record (Calculation Period 2003-10-01 → 2013-09-30)

Day of Month	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.11%	0.14%	0.12%	0.54%	0.70%	0.85%	0.37%	0.12%	0.09%	0.06%	0.06%	0.10%
2	0.11%	0.14%	0.12%	0.53%	0.66%	0.87%	0.35%	0.12%	0.08%	0.06%	0.06%	0.11%
3	0.11%	0.13%	0.12%	0.52%	0.65%	0.87%	0.33%	0.12%	0.08%	0.06%	0.06%	0.11%
4	0.11%	0.13%	0.13%	0.48%	0.64%	0.84%	0.32%	0.12%	0.08%	0.06%	0.06%	0.11%
5	0.10%	0.13%	0.13%	0.47%	0.65%	0.84%	0.30%	0.12%	0.08%	0.06%	0.06%	0.13%
6	0.10%	0.13%	0.13%	0.48%	0.69%	0.86%	0.29%	0.11%	0.08%	0.06%	0.06%	0.14%
7	0.11%	0.13%	0.13%	0.48%	0.75%	0.82%	0.28%	0.12%	0.08%	0.06%	0.08%	0.13%
8	0.11%	0.12%	0.14%	0.48%	0.79%	0.78%	0.26%	0.11%	0.08%	0.06%	0.13%	0.12%
9	0.13%	0.12%	0.14%	0.48%	0.82%	0.72%	0.25%	0.11%	0.08%	0.06%	0.10%	0.11%
10	0.13%	0.12%	0.16%	0.48%	0.86%	0.67%	0.24%	0.11%	0.08%	0.06%	0.09%	0.11%
11	0.13%	0.12%	0.16%	0.47%	0.88%	0.63%	0.22%	0.11%	0.08%	0.06%	0.09%	0.11%
12	0.12%	0.12%	0.20%	0.49%	0.93%	0.61%	0.22%	0.11%	0.07%	0.06%	0.08%	0.13%
13	0.12%	0.12%	0.31%	0.52%	0.94%	0.60%	0.21%	0.11%	0.07%	0.06%	0.08%	0.13%
14	0.12%	0.11%	0.29%	0.55%	0.93%	0.62%	0.20%	0.10%	0.07%	0.06%	0.08%	0.12%
15	0.13%	0.11%	0.27%	0.55%	1.01%	0.62%	0.20%	0.10%	0.07%	0.06%	0.07%	0.12%
16	0.14%	0.12%	0.29%	0.52%	1.14%	0.59%	0.19%	0.10%	0.07%	0.06%	0.08%	0.13%
17	0.23%	0.11%	0.31%	0.50%	1.25%	0.59%	0.18%	0.10%	0.07%	0.06%	0.08%	0.13%
18	0.26%	0.11%	0.31%	0.49%	1.29%	0.57%	0.18%	0.10%	0.07%	0.06%	0.08%	0.12%
19	0.22%	0.12%	0.32%	0.48%	1.31%	0.55%	0.17%	0.10%	0.07%	0.06%	0.07%	0.11%
20	0.22%	0.12%	0.33%	0.50%	1.24%	0.53%	0.17%	0.10%	0.07%	0.06%	0.08%	0.11%
21	0.21%	0.13%	0.33%	0.59%	1.15%	0.53%	0.16%	0.10%	0.07%	0.06%	0.08%	0.11%
22	0.20%	0.13%	0.31%	0.66%	1.12%	0.53%	0.16%	0.09%	0.07%	0.06%	0.10%	0.11%
23	0.19%	0.12%	0.30%	0.70%	1.06%	0.54%	0.15%	0.09%	0.07%	0.06%	0.11%	0.11%
24	0.18%	0.12%	0.29%	0.74%	0.99%	0.51%	0.15%	0.09%	0.07%	0.06%	0.11%	0.11%
25	0.17%	0.12%	0.32%	0.75%	0.95%	0.48%	0.14%	0.09%	0.07%	0.06%	0.11%	0.11%
26	0.17%	0.12%	0.36%	0.70%	0.93%	0.44%	0.14%	0.09%	0.07%	0.06%	0.10%	0.11%
27	0.16%	0.12%	0.35%	0.69%	0.91%	0.41%	0.14%	0.09%	0.07%	0.06%	0.10%	0.10%
28	0.16%	0.12%	0.34%	0.68%	0.87%	0.40%	0.14%	0.09%	0.07%	0.06%	0.09%	0.10%
29	0.15%	0.09%	0.33%	0.69%	0.86%	0.40%	0.13%	0.09%	0.07%	0.06%	0.09%	0.10%
30	0.15%		0.36%	0.70%	0.85%	0.39%	0.13%	0.09%	0.07%	0.06%	0.09%	0.11%
31	0.15%		0.46%		0.84%		0.13%	0.09%		0.06%		0.11%

Table C-2. Daily Sediment TMDL for Petty Creek in Tons

Day of Month	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.97	5.24	4.60	19.97	25.94	31.82	13.85	4.65	3.18	2.40	2.10	3.57
2	3.97	5.04	4.55	19.68	24.67	32.46	13.02	4.60	3.13	2.35	2.10	3.97
3	3.97	4.99	4.65	19.34	24.08	32.55	12.38	4.50	3.08	2.35	2.06	4.16
4	3.97	4.99	4.70	17.87	23.79	31.13	11.85	4.41	3.04	2.35	2.06	4.11
5	3.87	4.99	4.80	17.43	24.13	31.48	11.26	4.31	2.99	2.30	2.06	4.70
6	3.82	4.80	4.85	17.92	25.60	31.92	10.72	4.26	2.99	2.30	2.15	5.14
7	3.92	4.75	4.94	18.01	28.00	30.60	10.28	4.31	2.94	2.30	3.04	4.75
8	4.16	4.60	5.09	17.92	29.42	29.03	9.79	4.21	2.94	2.25	4.90	4.36
9	4.70	4.50	5.34	17.77	30.64	26.73	9.25	4.11	2.89	2.25	3.87	4.06
10	4.80	4.45	5.83	17.77	31.97	24.87	8.76	4.01	2.84	2.25	3.38	3.97
11	4.75	4.36	5.97	17.62	32.70	23.45	8.32	3.97	2.84	2.25	3.28	4.01
12	4.55	4.31	7.64	18.11	34.51	22.76	8.03	4.01	2.79	2.20	3.08	4.94
13	4.45	4.36	11.41	19.34	34.90	22.42	7.83	3.92	2.79	2.20	3.08	4.85
14	4.60	4.26	10.67	20.36	34.56	23.15	7.59	3.87	2.74	2.20	2.94	4.65
15	4.80	4.26	10.04	20.36	37.50	23.01	7.29	3.77	2.74	2.20	2.79	4.65
16	5.14	4.31	10.82	19.43	42.44	21.98	7.00	3.72	2.74	2.20	2.89	4.75
17	8.52	4.06	11.55	18.70	46.46	21.83	6.76	3.67	2.69	2.15	2.89	4.90
18	9.74	4.06	11.60	18.21	48.02	21.29	6.56	3.62	2.69	2.15	2.89	4.45
19	8.32	4.36	12.04	18.06	48.85	20.51	6.41	3.57	2.69	2.15	2.79	4.26
20	8.22	4.65	12.19	18.55	46.36	19.68	6.27	3.57	2.64	2.15	2.89	4.21
21	7.93	4.70	12.14	22.03	42.93	19.87	6.07	3.57	2.64	2.10	3.08	4.16
22	7.64	4.75	11.55	24.52	41.76	19.92	5.87	3.52	2.59	2.10	3.57	4.06
23	7.10	4.65	11.11	25.99	39.41	20.02	5.73	3.43	2.59	2.15	3.92	4.01
24	6.71	4.55	10.97	27.61	37.06	19.09	5.53	3.38	2.55	2.15	3.97	4.01
25	6.46	4.55	11.90	28.05	35.54	17.72	5.38	3.38	2.55	2.10	3.97	3.97
26	6.27	4.60	13.36	25.94	34.76	16.45	5.29	3.43	2.50	2.10	3.72	3.92
27	6.02	4.55	13.07	25.55	34.02	15.47	5.19	3.33	2.50	2.10	3.57	3.87
28	5.83	4.60	12.63	25.16	32.50	14.83	5.04	3.28	2.45	2.10	3.43	3.87
29	5.68	3.43	12.43	25.60	31.97	14.83	4.94	3.23	2.45	2.15	3.33	3.87
30	5.63		13.27	26.14	31.57	14.59	4.80	3.18	2.50	2.10	3.38	4.01
31	5.48		17.04		31.48		4.70	3.18		2.10		4.06

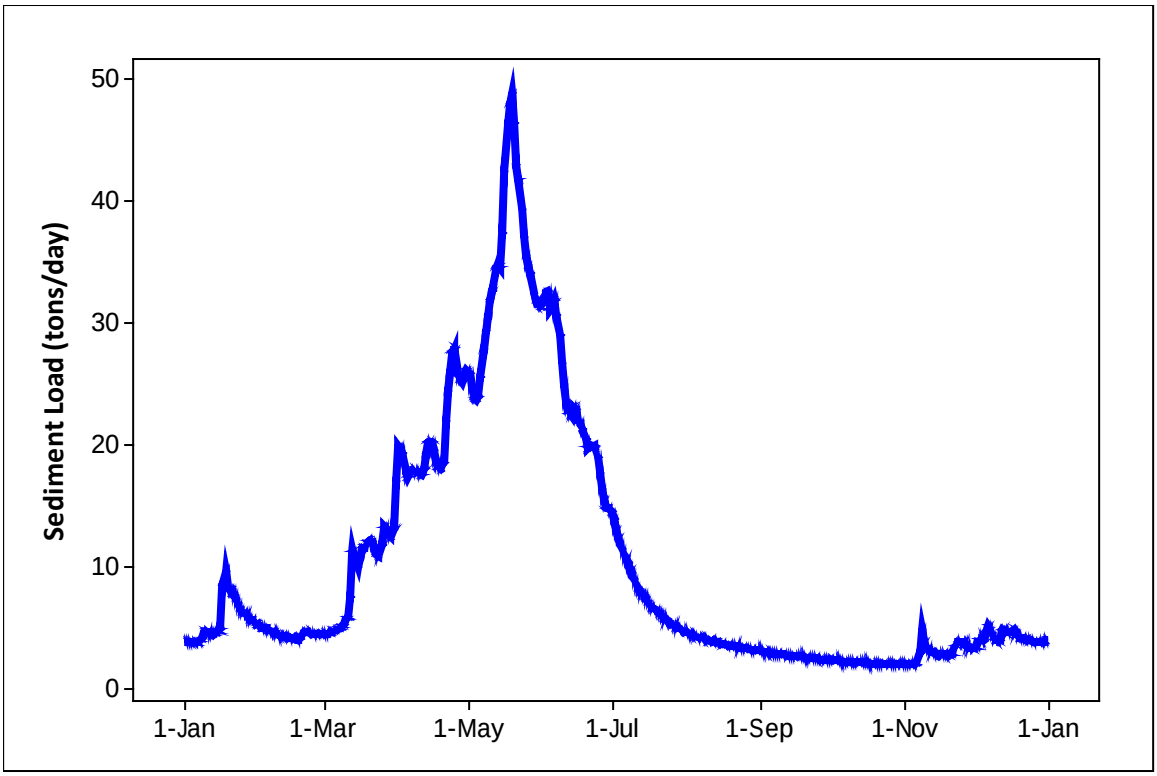

Figure C-1. Total Maximum Daily Load for Sediment in Petty Creek

Table C-3. TMDLs Expressed as an Average Annual Load and Can Be Used in Conjunction with the Values in Table C-1 to Compute Daily Loads

Stream Segment	Waterbody #	TMDL Expressed as Average Annual Load (tons/year)
FLAT CREEK, headwaters to mouth (Clark Fork River)	MT76M002_180	543.0
PETTY CREEK, headwaters to mouth (Clark Fork River)	MT76M002_090	3,727.6
WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	MT76M002_100	802.0

C1.3 Approach – Middle Rockies Level III Ecoregion

The preferred approach for calculating daily sediment loads is to use a nearby water quality gage with a long-term dataset for flow and suspended sediment. Since sediment loading in the Middle Rockies Level III ecoregion portion of the Central Clark Fork Basin Tributaries TMDL Project Area is associated with small point sources, nonpoint sources and stormwater related point sources, the hydrograph is assumed to be a reasonable surrogate for sediment loading to streams (i.e., peak contributions during periods of runoff and high flow). Therefore, mean daily discharge values from 10 years of record (2003-2013) at the gage on Tenmile Creek near Rimini, Montana (#06062500), were used to calculate daily sediment values for TMDLs in Grant Creek, Cramer Creek, Mulkey Creek, Deep Creek, Tenmile Creek, and Rattler Gulch the Central Clark Fork Basin Tributaries TMDL Project Area. The Tenmile Creek gage (#06062500) was determined to be the active gage most similar in terms of drainage area, land cover and land use. Drainage areas for streams with sediment TMDLs in the Middle Rockies Level III ecoregion and within the Central Clark Fork Basin Tributaries TMDL planning area ranged in size from 9 to 29 sq. mi. The

Tenmile Creek gage drainage area is 31 sq. mi. and DEQ determined that it is the best fit of available catchment discharge data for the purposes of expressing daily sediment loads.

Using the mean of daily mean discharge values from the gage, a daily percentage relative to the mean annual discharge was calculated for each day (**Table C-4**). For each TMDL, the daily load can be calculated by multiplying the daily percentages in **Table C-4** by the total average annual load associated with the TMDL percent reductions in **Section 5.7** of the main document. For instance, the total allowable annual sediment load for the Grant Creek is 1,440.2 tons. To determine the TMDL for January 1st, 1,440.2 tons is multiplied by 0.02% which provides a daily load for Grant Creek on January 1st of 0.24 tons. To conserve resources, this appendix contains the daily loads for Grant Creek as an example (**Table C-5** and **Figure C-2**). Daily loads for all other TMDLs can be calculated by multiplying the percentages in **Table C-4** by the values in **Table C-6**. The daily loads are a composite of the allocations, but as allocations are not feasible on a daily basis, they are not contained within this appendix. If desired, daily allocations may be obtained by applying allocations provided in **Section 5.7** of the main document to the daily load.

Table C-4. USGS Stream Gage 06062500 (Tenmile Creek near Rimini, Montana) – Percent of Mean Annual Discharge Based on Mean of Daily Mean Discharge Values for each Day of Record (Calculation Period 2003-10-01 → 2013-09-30)

Day of Month	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.02%	0.01%	0.02%	0.13%	0.58%	1.64%	0.42%	0.06%	0.03%	0.02%	0.04%	0.03%
2	0.02%	0.01%	0.02%	0.12%	0.57%	1.70%	0.43%	0.06%	0.03%	0.02%	0.04%	0.03%
3	0.02%	0.01%	0.02%	0.11%	0.57%	1.76%	0.37%	0.05%	0.03%	0.02%	0.05%	0.03%
4	0.02%	0.02%	0.02%	0.12%	0.58%	1.73%	0.36%	0.05%	0.03%	0.03%	0.04%	0.03%
5	0.02%	0.02%	0.02%	0.14%	0.60%	1.75%	0.33%	0.05%	0.03%	0.04%	0.04%	0.03%
6	0.02%	0.01%	0.02%	0.15%	0.64%	1.85%	0.30%	0.07%	0.03%	0.04%	0.03%	0.03%
7	0.02%	0.01%	0.02%	0.15%	0.69%	2.12%	0.27%	0.10%	0.03%	0.05%	0.05%	0.02%
8	0.02%	0.01%	0.02%	0.16%	0.72%	1.97%	0.25%	0.08%	0.03%	0.05%	0.06%	0.02%
9	0.02%	0.01%	0.02%	0.16%	0.76%	1.85%	0.22%	0.07%	0.03%	0.04%	0.04%	0.02%
10	0.02%	0.01%	0.02%	0.16%	0.93%	1.87%	0.21%	0.07%	0.04%	0.04%	0.04%	0.02%
11	0.02%	0.02%	0.02%	0.16%	0.96%	1.78%	0.19%	0.10%	0.03%	0.04%	0.04%	0.02%
12	0.02%	0.02%	0.02%	0.19%	0.94%	1.78%	0.18%	0.08%	0.02%	0.03%	0.03%	0.02%
13	0.02%	0.01%	0.02%	0.22%	0.99%	1.63%	0.18%	0.09%	0.02%	0.03%	0.05%	0.02%
14	0.02%	0.01%	0.03%	0.24%	1.05%	1.51%	0.18%	0.08%	0.03%	0.03%	0.04%	0.02%
15	0.02%	0.01%	0.03%	0.25%	1.11%	1.44%	0.15%	0.07%	0.03%	0.04%	0.04%	0.02%
16	0.01%	0.02%	0.03%	0.24%	1.27%	1.47%	0.13%	0.06%	0.02%	0.04%	0.04%	0.02%
17	0.02%	0.02%	0.04%	0.25%	1.38%	1.42%	0.13%	0.05%	0.02%	0.05%	0.04%	0.02%
18	0.02%	0.01%	0.04%	0.27%	1.42%	1.27%	0.12%	0.05%	0.02%	0.05%	0.04%	0.02%
19	0.02%	0.01%	0.04%	0.27%	1.60%	1.18%	0.10%	0.04%	0.02%	0.05%	0.04%	0.02%
20	0.02%	0.02%	0.04%	0.30%	1.76%	1.08%	0.09%	0.04%	0.03%	0.06%	0.04%	0.02%
21	0.02%	0.01%	0.04%	0.37%	1.67%	0.99%	0.08%	0.04%	0.02%	0.06%	0.04%	0.02%
22	0.02%	0.01%	0.05%	0.46%	1.60%	0.96%	0.08%	0.03%	0.02%	0.05%	0.04%	0.02%
23	0.02%	0.01%	0.05%	0.54%	1.70%	0.87%	0.07%	0.05%	0.03%	0.04%	0.03%	0.02%
24	0.02%	0.02%	0.06%	0.57%	1.78%	0.79%	0.07%	0.04%	0.03%	0.04%	0.03%	0.02%
25	0.02%	0.02%	0.06%	0.58%	1.75%	0.70%	0.06%	0.04%	0.03%	0.04%	0.03%	0.02%
26	0.02%	0.02%	0.07%	0.64%	1.69%	0.66%	0.06%	0.04%	0.03%	0.04%	0.03%	0.02%
27	0.01%	0.02%	0.07%	0.63%	1.66%	0.60%	0.08%	0.03%	0.02%	0.04%	0.03%	0.02%
28	0.02%	0.02%	0.07%	0.61%	1.66%	0.55%	0.07%	0.03%	0.02%	0.03%	0.03%	0.02%
29	0.02%	0.01%	0.07%	0.60%	1.66%	0.51%	0.07%	0.03%	0.03%	0.04%	0.03%	0.02%
30	0.01%		0.08%	0.60%	1.66%	0.46%	0.06%	0.03%	0.04%	0.04%	0.03%	0.02%
31	0.01%		0.10%		1.59%		0.06%	0.03%		0.04%		0.01%

Table C-5. Daily Sediment TMDL for Petty Creek in Tons

Day of Month	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.24	0.22	0.24	1.83	8.40	23.69	6.03	0.84	0.47	0.24	0.62	0.41
2	0.24	0.22	0.24	1.70	8.18	24.55	6.25	0.88	0.47	0.26	0.65	0.41
3	0.24	0.22	0.24	1.64	8.18	25.41	5.38	0.73	0.41	0.30	0.69	0.41
4	0.24	0.24	0.24	1.74	8.40	24.98	5.17	0.69	0.39	0.37	0.60	0.37
5	0.24	0.24	0.24	1.98	8.61	25.20	4.74	0.69	0.39	0.52	0.54	0.41
6	0.24	0.22	0.26	2.15	9.26	26.70	4.31	0.95	0.37	0.52	0.50	0.37
7	0.24	0.21	0.26	2.15	9.91	30.58	3.88	1.49	0.37	0.71	0.73	0.34
8	0.24	0.20	0.28	2.37	10.34	28.43	3.66	1.14	0.37	0.67	0.80	0.32
9	0.24	0.22	0.30	2.37	10.98	26.70	3.23	0.95	0.45	0.56	0.58	0.32
10	0.24	0.22	0.34	2.37	13.35	26.92	3.02	1.01	0.52	0.58	0.56	0.32
11	0.24	0.24	0.32	2.37	13.78	25.63	2.80	1.40	0.41	0.56	0.52	0.32
12	0.26	0.24	0.32	2.80	13.57	25.63	2.58	1.18	0.34	0.50	0.50	0.30
13	0.26	0.22	0.34	3.23	14.21	23.47	2.58	1.25	0.34	0.47	0.75	0.24
14	0.24	0.22	0.37	3.45	15.08	21.75	2.58	1.21	0.37	0.45	0.62	0.26
15	0.24	0.22	0.39	3.66	15.94	20.67	2.15	1.01	0.37	0.52	0.58	0.26
16	0.22	0.24	0.50	3.45	18.31	21.11	1.87	0.84	0.34	0.58	0.60	0.26
17	0.30	0.24	0.54	3.66	19.81	20.46	1.87	0.78	0.34	0.67	0.60	0.26
18	0.26	0.22	0.62	3.88	20.46	18.31	1.70	0.69	0.34	0.69	0.60	0.24
19	0.28	0.22	0.65	3.88	23.04	17.01	1.46	0.60	0.34	0.78	0.54	0.24
20	0.26	0.24	0.62	4.31	25.41	15.51	1.29	0.54	0.39	0.86	0.56	0.26
21	0.28	0.21	0.65	5.38	24.12	14.21	1.18	0.54	0.34	0.84	0.60	0.24
22	0.26	0.22	0.71	6.68	23.04	13.78	1.21	0.50	0.30	0.67	0.52	0.24
23	0.24	0.22	0.75	7.75	24.55	12.49	1.06	0.69	0.39	0.62	0.50	0.24
24	0.24	0.24	0.80	8.18	25.63	11.41	0.97	0.56	0.39	0.62	0.50	0.24
25	0.24	0.24	0.90	8.40	25.20	10.12	0.93	0.54	0.41	0.60	0.50	0.24
26	0.24	0.24	0.99	9.26	24.34	9.48	0.86	0.56	0.50	0.58	0.47	0.24
27	0.22	0.24	1.01	9.05	23.90	8.61	1.14	0.50	0.34	0.54	0.43	0.24
28	0.24	0.24	0.97	8.83	23.90	7.97	1.01	0.43	0.34	0.47	0.50	0.24
29	0.24	0.18	1.01	8.61	23.90	7.32	0.95	0.43	0.50	0.58	0.47	0.26
30	0.22		1.16	8.61	23.90	6.68	0.84	0.50	0.54	0.56	0.45	0.24
31	0.22		1.51		22.83		0.80	0.45		0.60		0.22

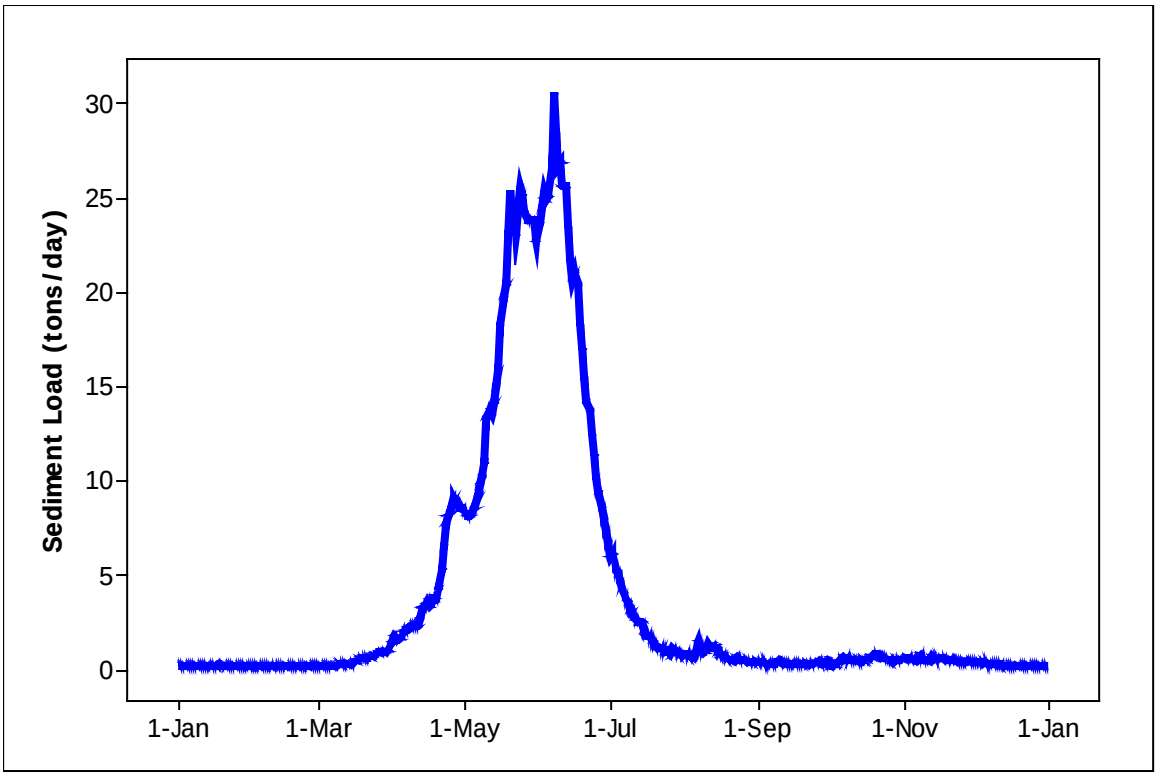

Figure C-2. Total Maximum Daily Load for Sediment in Grant Creek

Table C-6. TMDLs Expressed as an Average Annual Load and Can Be Used in Conjunction with the Values in Table C-4 to Compute Daily Loads

Stream Segment	Waterbody #	TMDL Expressed as Average Annual Load (tons/year)
GRANT CREEK, headwaters to mouth (Clark Fork River)	MT76M002_130	1,440.2
CRAMER CREEK, headwaters to mouth (Clark Fork River)	MT76E004_020	1,205.5
TENMILE CREEK, headwaters to mouth (Bear Creek)	MT76E004_030	515.2
DEEP CREEK, headwaters to mouth (Bear Creek)	MT76E004_070	549.2
MULKEY CREEK, headwaters to mouth (Clark Fork River)	MT76E004_050	522.8
RATTLER GULCH, headwaters to mouth (Clark Fork River)	MT76E004_060	842.4