

Appendix C

Total Maximum Daily Load for dissolved copper for the Eagle River, Segment 5a - OLD STANDARDS - DFLOW									
Season	Chronic Low Flow (30E3), cfs	Hardness as CaCO ₃ , mg/L	Std ug/l	TMDL lbs/day	Current conc, ug/l	Current Load, lbs/day	WLA, lbs/day	LA, lbs/day	Percent Load Reduction
High	21	79	7.3	0.8	10.7	1.8	0.7	0.1	54%
Low	31	71	6.7	1.1	2.4	0.8	1.0	0.1	0%
Total Maximum Daily Load for dissolved zinc for the Eagle River, Segment 5a									
High	21	79	106.0	12.0	440	73.7	11.9	0.1	84%
Low	31	71	106.0	17.7	167	56.8	17.6	0.2	69%

Table 19. Total Maximum Daily Load for dissolved copper and zinc for the Eagle River, Segment 5a. TMDL is based on standards prior to the 2008 Upper/Lower Colorado Basin hearing (*effective until 1/1/09*). TMDLs are calculated using 30-day chronic low flows generated by USEPA DFLOW software, while stream loads are calculated using median flows

Total Maximum Daily Load for dissolved copper for the Eagle River, Segment 5a - NEW STANDARDS - DFLOW									
Season	Chronic Low Flow (30E3), cfs	Hardness as CaCO ₃ , mg/l	Std ug/l	TMDL lbs/day	Current conc, ug/l	Current Load, lbs/day	WLA, lbs/day	LA, lbs/day	Percent Load Reduction
High	21	80	12.7	1.4	7.9	0.9	1.2	0.2	0%
Low	31	65	11.2	1.9	2.8	1.2	1.6	0.2	0%
Total Maximum Daily Load for dissolved zinc for the Eagle River, Segment 5a									
High	21	80	294.8	33.4	434	72.7	33.1	0.3	54%
Low	31	65	246.9	41.3	130	44.2	40.9	0.4	0%

Table 20. Total Maximum Daily Load for dissolved copper and zinc for the Eagle River, Segment 5a. TMDL is based on site-specific standards adopted at the 2008 Upper/Lower Colorado Basin hearing (*effective 1/1/09*). TMDLs are calculated using 30-day chronic low flows generated by USEPA DFLOW software, while stream loads are calculated using median flows

Total Maximum Daily Load for dissolved copper for the Eagle River Segment 5b - OLD STANDARD - DFLOW										
Season	Chronic Low Flow (30E3), cfs	Hardness as CaCO3 mg/l	Std mg/l	TMDL lbs/day	WLA, permitted discharge, lbs/day	WLA, Non-permitted Discharge, lbs/day	LA, lbs/day	Current stream conc. mg/l	Current Load lbs/day	% Load Reduction
High	21	98	8.8	1.0	0.07	0.8	0.16	9.9	1.7	40%
Low	31	98	8.8	1.5	0.07	1.2	0.24	2.6	0.9	0%
Total Maximum Daily Load for dissolved zinc for the Eagle River Segment 5b										
High	21	98	106	12.0	2.1	9.8	0.10	472	79.0	85%
Low	31	98	106	17.7	6.1	11.5	0.12	144	49.0	64%

Table 21. Total Maximum Daily Load for dissolved copper and zinc for the Eagle River, Segment 5b. TMDL is based on standards prior to the 2008 Upper/Lower Colorado Basin hearing (*effective until 1/1/09*). TMDLs are calculated using 30-day chronic low flows generated by USEPA DFLOW software, while stream loads are calculated using median flows.

Total Maximum Daily Load for dissolved copper for the Eagle River Segment 5b - NEW STANDARD - DFLOW										
Season	Chronic Low Flow (30E3), cfs	Hardnes as CaCO3 mg/l	Std µg/l	TMDL lbs/day	WLA, Permitted discharge lbs/day	WLA, Non-permitted discharge, lbs/day	LA, lbs/day	Current stream conc. µg/l	Current Load lbs/day	% Load Reduction
High	21	102	9.0	1.0	0.07	0.8	0.16	9.8	1.6	38%
Low	31	90	8.4	1.4	0.07	1.1	0.23	3.5	1.2	0%
Total Maximum Daily Load for dissolved zinc for the Eagle River Segment 5b										
High	21	102	363	41.1	2.1	38.7	0.39	452	75.7	46%
Low	31	90	160	26.8	6.1	20.5	0.21	122	41.3	35%

Table 22. Total Maximum Daily Load for dissolved copper and zinc for the Eagle River, Segment 5b. TMDL is based on site-specific standards adopted at the 2008 Upper/Lower Colorado Basin hearing. TMDLs are calculated using 30-day chronic low flows generated by USEPA DFLOW software, while stream loads are calculated using median flows.

TMDL for dissolved copper for the Eagle River, Segment 5c - OLD STANDARD - DFLOW									
Season	Chronic Low Flow (30E3), cfs	Hardness as CaCO3 mg/l	Std µg/l	TMDL lbs/day	WLA, Non-permitted discharge, lbs/day	LA, lbs/day	Current stream conc. µg/l	Current Load lbs/day	Percent Load Reduction
High	21	80	7.4	0.8	0.7	0.2	5.8	1.0	29%
Low	31	110	9.7	1.6	1.3	0.3	2.0	0.7	0%
TMDL for dissolved zinc for the Eagle River, Segment 5c									
High	21	80	106	12.0	11.9	0.1	235	39.4	69%
Low	31	110	106	17.7	17.6	0.2	109	37.2	52%

Table 23. Total Maximum Daily Load for dissolved copper and zinc for the Eagle River, Segment 5c. TMDL is based on standards prior to the 2008 Upper/Lower Colorado Basin hearing (*effective until 1/1/09*). TMDLs are calculated using 30-day chronic low flows generated by USEPA DFLOW software, while stream loads are calculated using median flows.

TMDL for dissolved copper for the Eagle River, Segment 5c - NEW STANDARD - DFLOW									
Season	Chronic Low Flow (30E3), cfs	Hardness as CaCO3 mg/l	Std µg/l	TMDL lbs/day	WLA, Non-permitted discharge, lbs/day	LA, lbs/day	Current stream conc. µg/l	Current Load lbs/day	Percent Load Reduction
High	21	90	8.4	1.0	0.8	0.2	5.5	0.9	17%
Low	31	88	8.3	1.4	1.1	0.3	2.3	0.8	0%
TMDL for dissolved zinc for the Eagle River, Segment 5c									
High	21	90	160	18.1	18.0	0.2	218	36.4	50%
Low	31	88	157	26.3	26.0	0.3	78	26.4	0.4%

Table 24. Total Maximum Daily Load for dissolved copper and zinc for the Eagle River, Segment 5c. TMDL is based on site-specific standards adopted at the 2008 Upper/Lower Colorado Basin hearing. TMDLs are calculated using 30-day chronic low flows generated by USEPA DFLOW software, while stream loads are calculated using median flows.