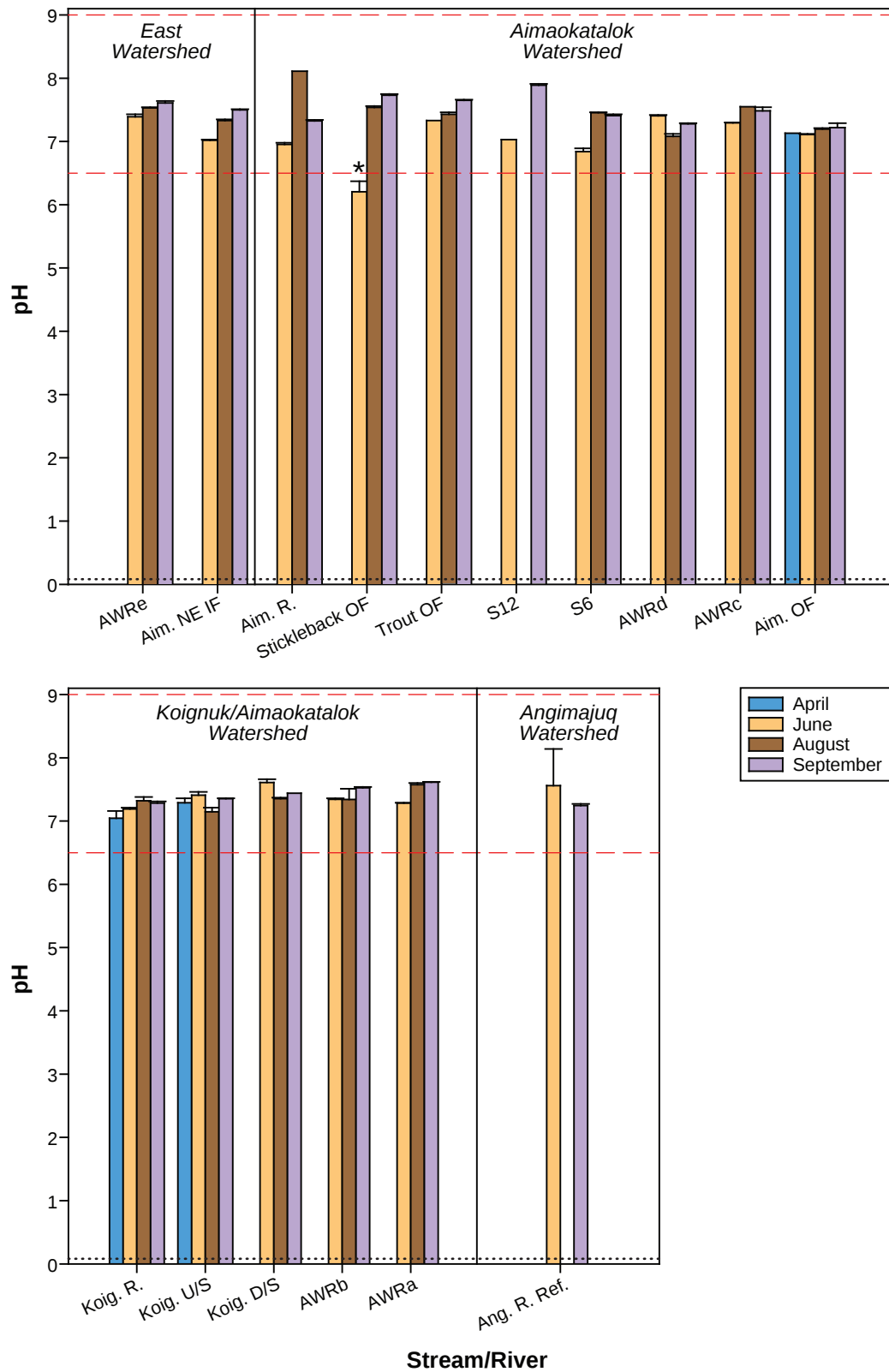
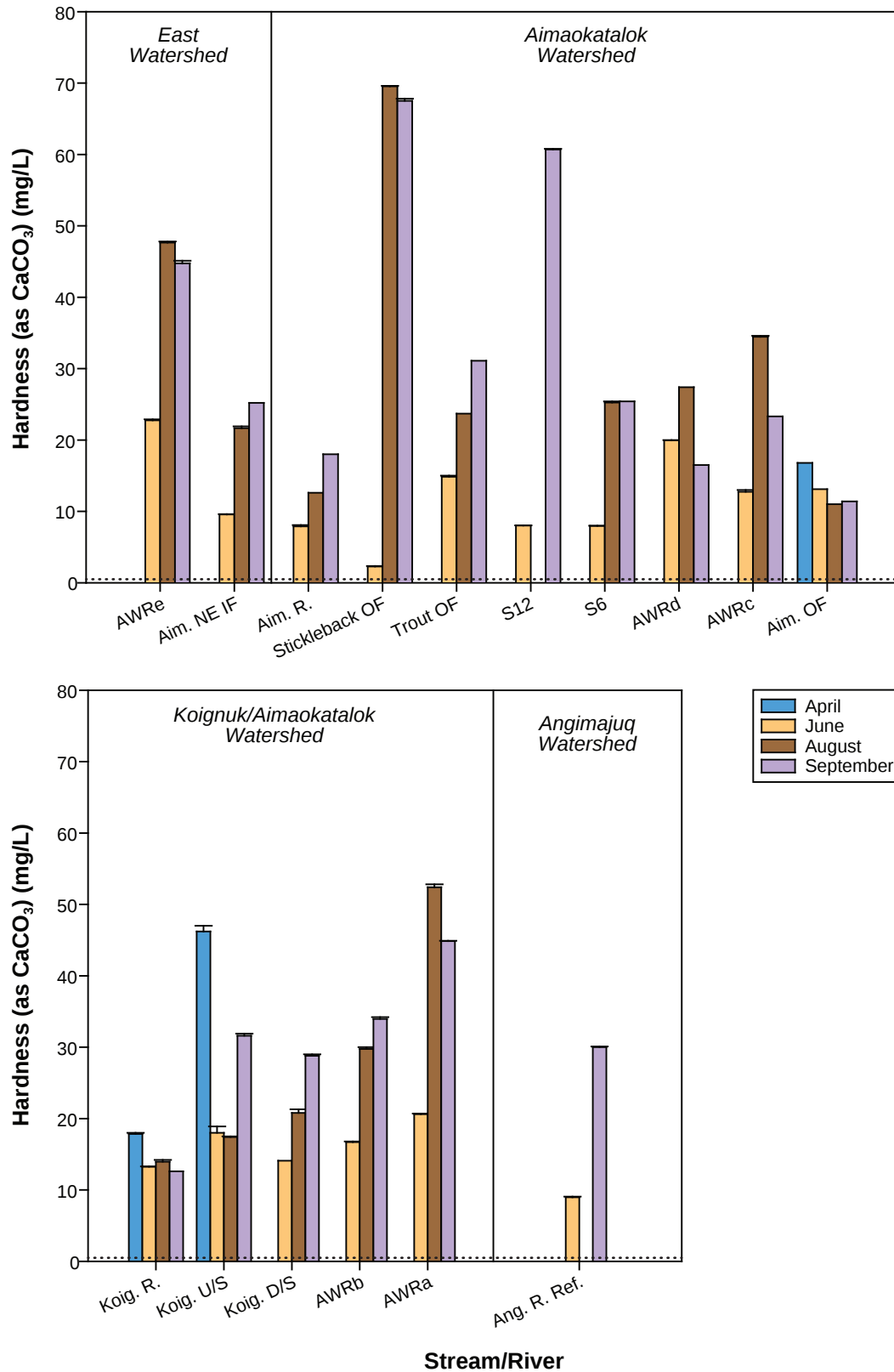




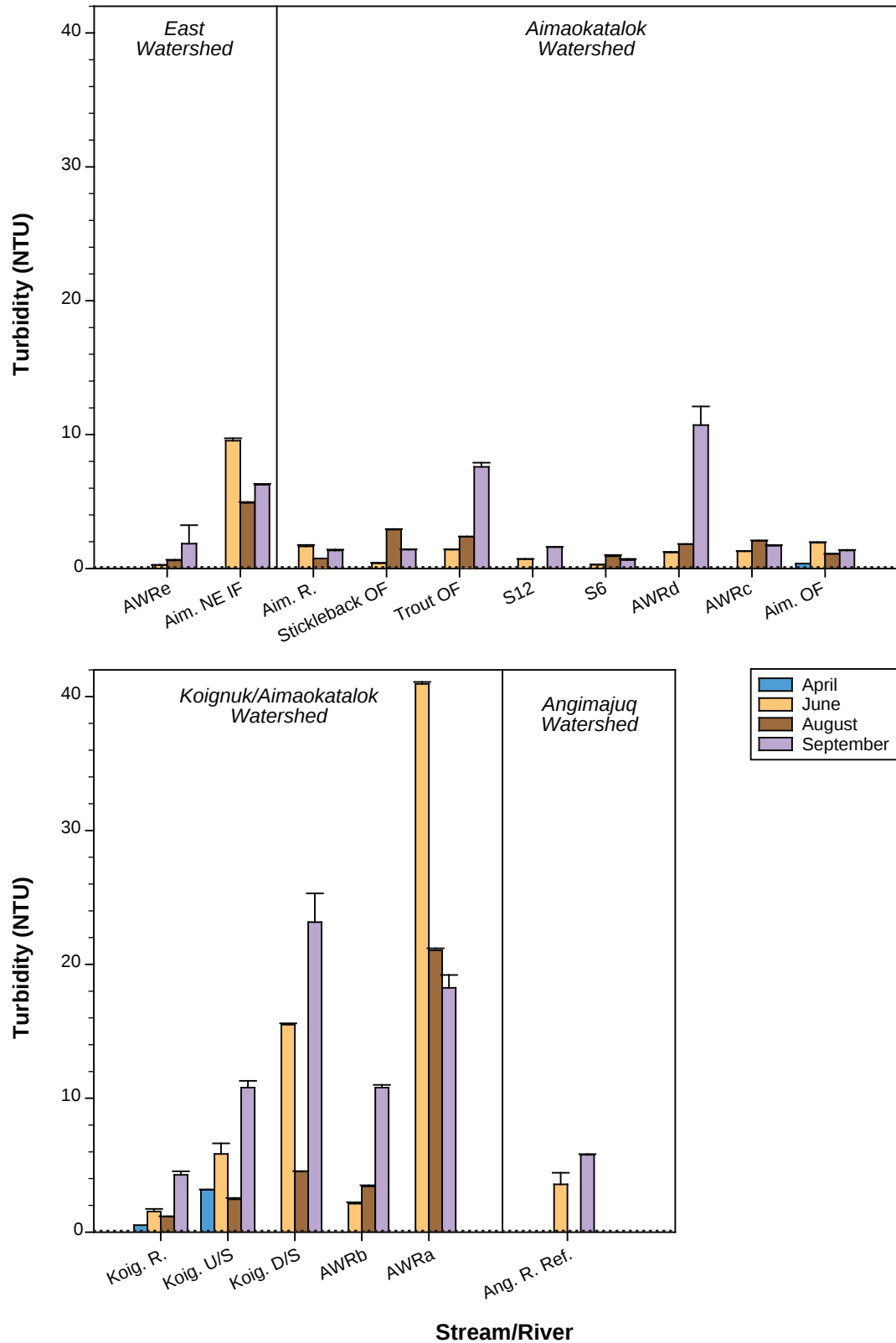
Notes: Error bars represent standard error of the mean of replicates.
 Dotted line represents analytical detection limit (pH 0.10).
 Red dashed lines represent CCME guideline (pH 6.5–9).
 * Indicates average values that are not within CCME guideline pH range.

Figure 3.3-1a



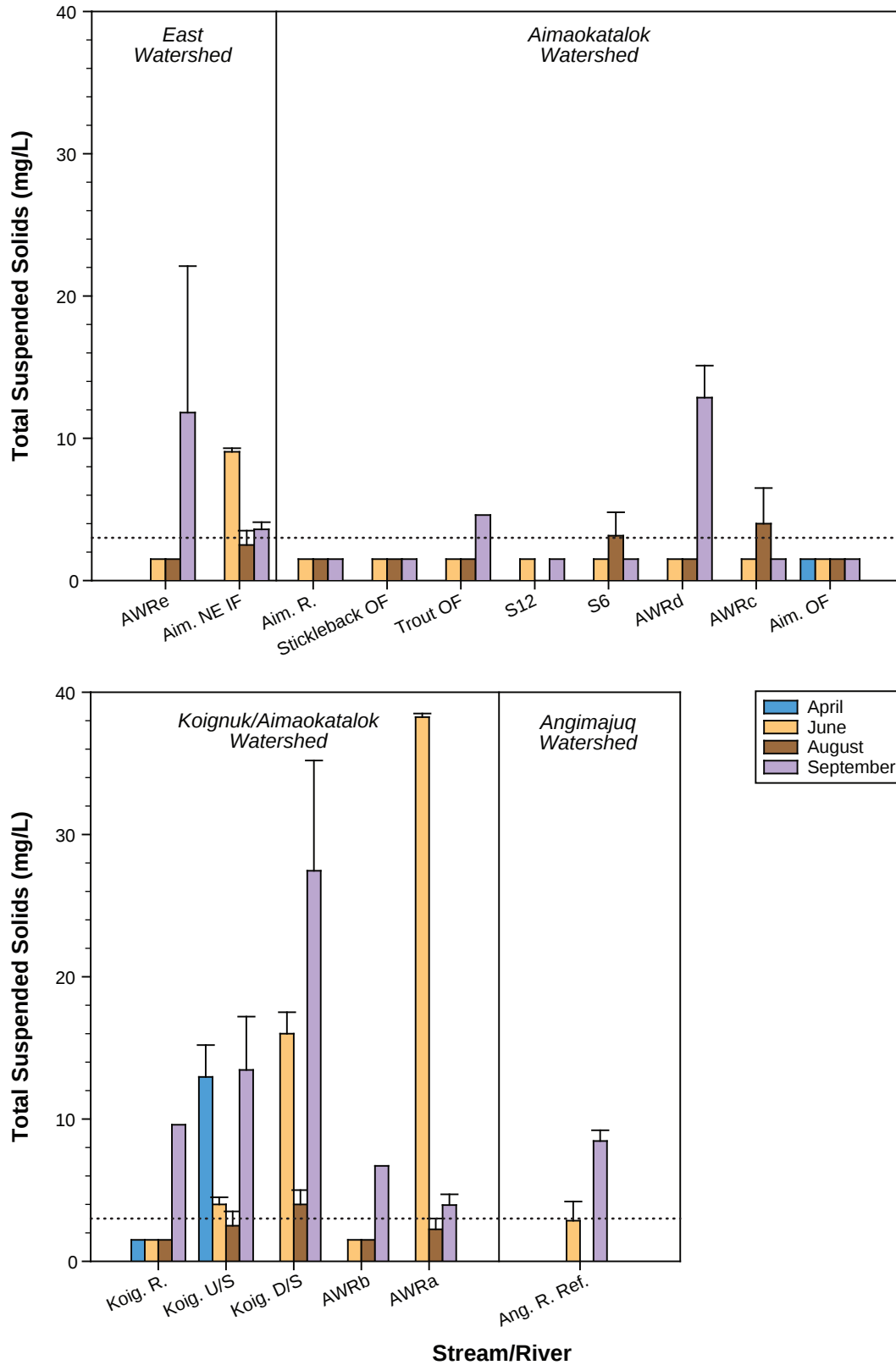
Note: Error bars represent standard error of the mean of replicates.
Dotted line represents analytical detection limit (0.50 mg/L).
There is no CCME guideline for hardness.

Figure 3.3-1b



Notes: Error bars represent standard error of the mean of replicates.
Dotted line represents analytical detection limit (0.1 NTU).
CCME guideline for turbidity is dependent upon background levels.

Figure 3.3-1c

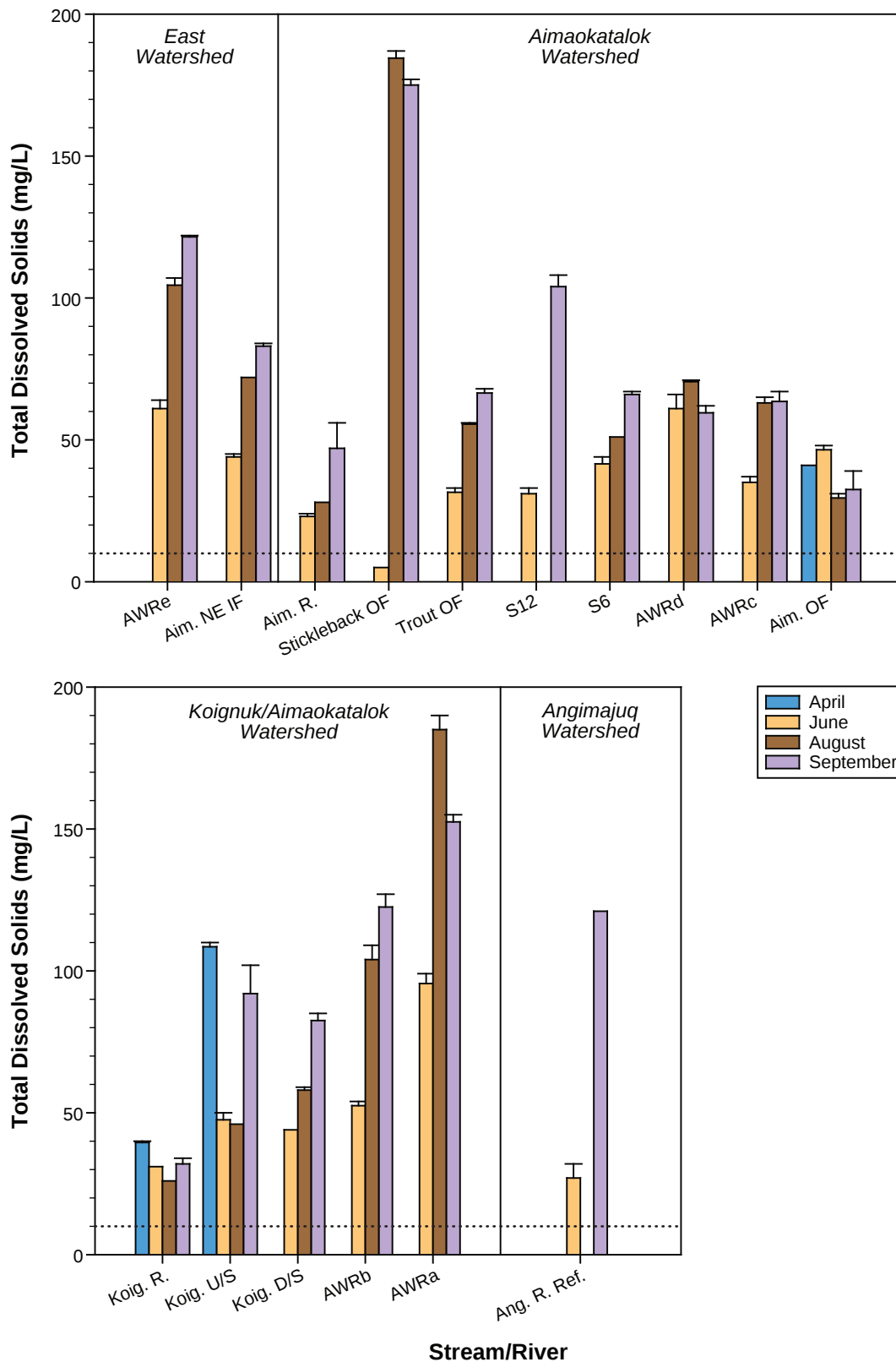


Note: Error bars represent standard error of the mean of replicates.

Dotted line represents analytical detection limit (3 mg/L); values below the detection limit are plotted at half the detection limit.

CCME guideline for total suspended solids is dependent upon background levels.

Figure 3.3-1d

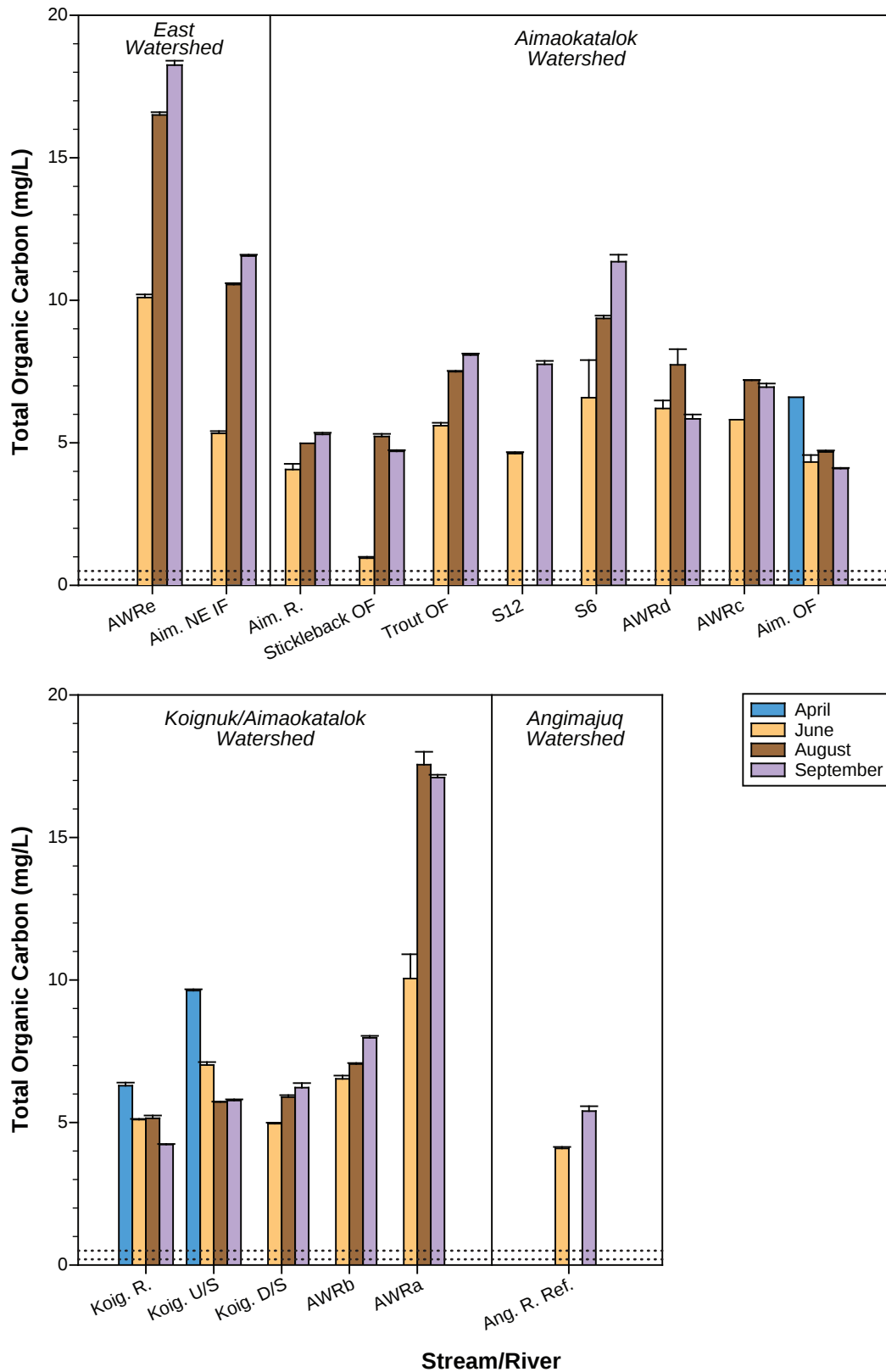


Note: Error bars represent standard error of the mean of replicates.

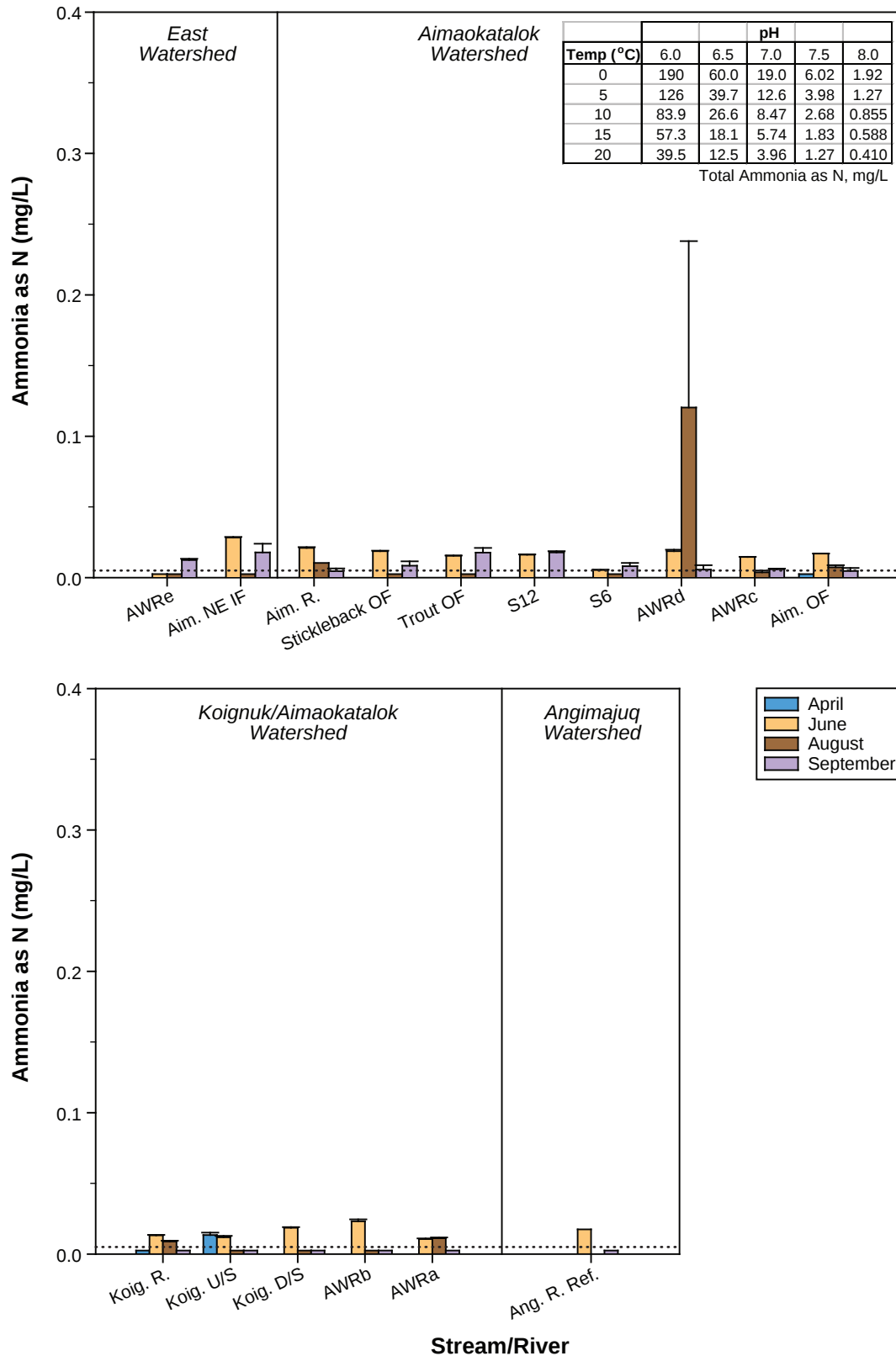
Dotted line represents analytical detection limit (10 mg/L); values below the detection limit are plotted at half the detection limit.

There is no CCME guideline for total dissolved solids.

Figure 3.3-1e



Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.2 or 0.5 mg/L).
There is no CCME guideline for total organic carbon.

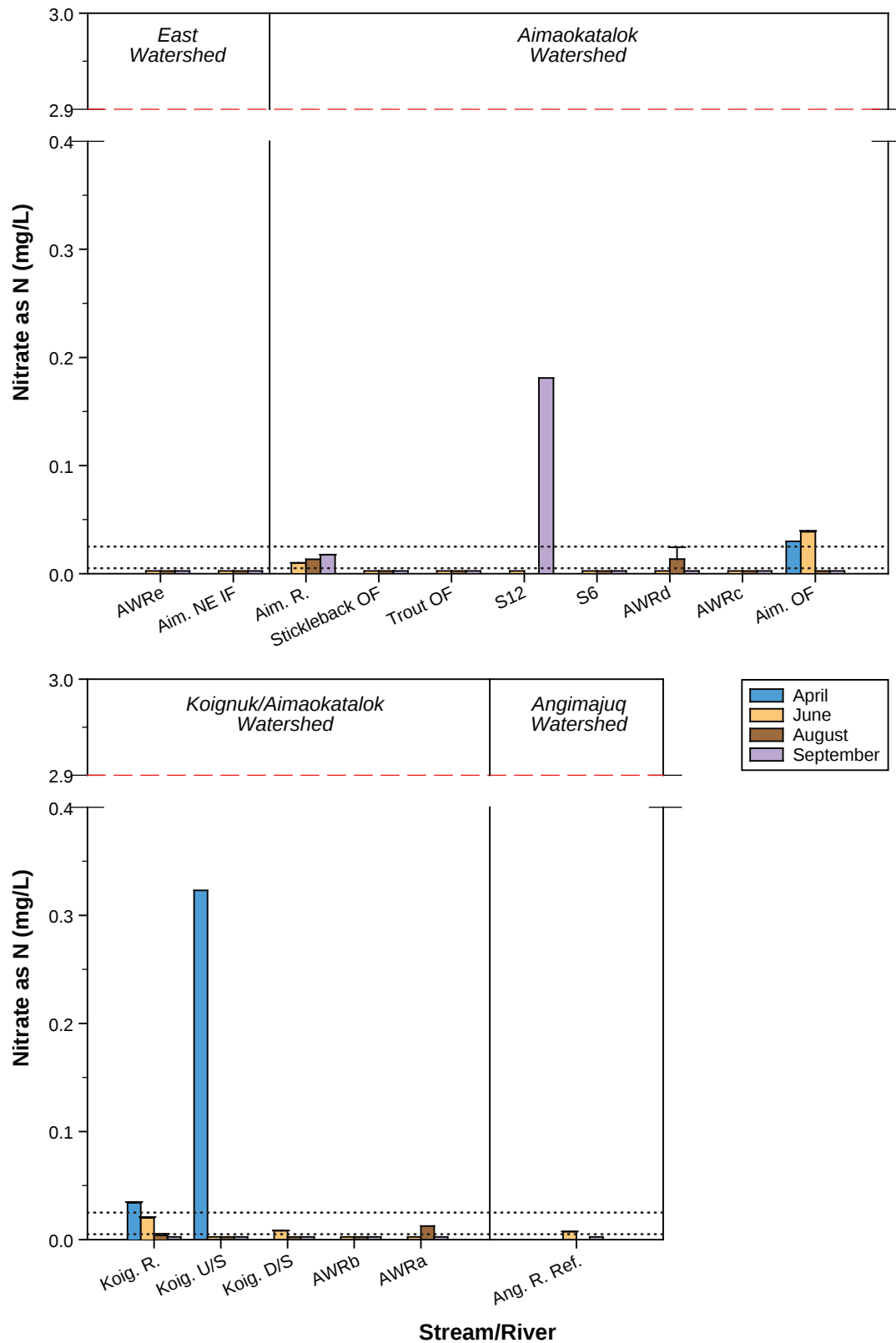


Notes: Error bars represent standard error of the mean of replicates.

Dotted line represents analytical detection limit (0.005 mg/L); values below the detection limit are plotted at half the detection limit.

Inset table shows temperature- and pH-dependent CCME guideline.

Figure 3.3-1g

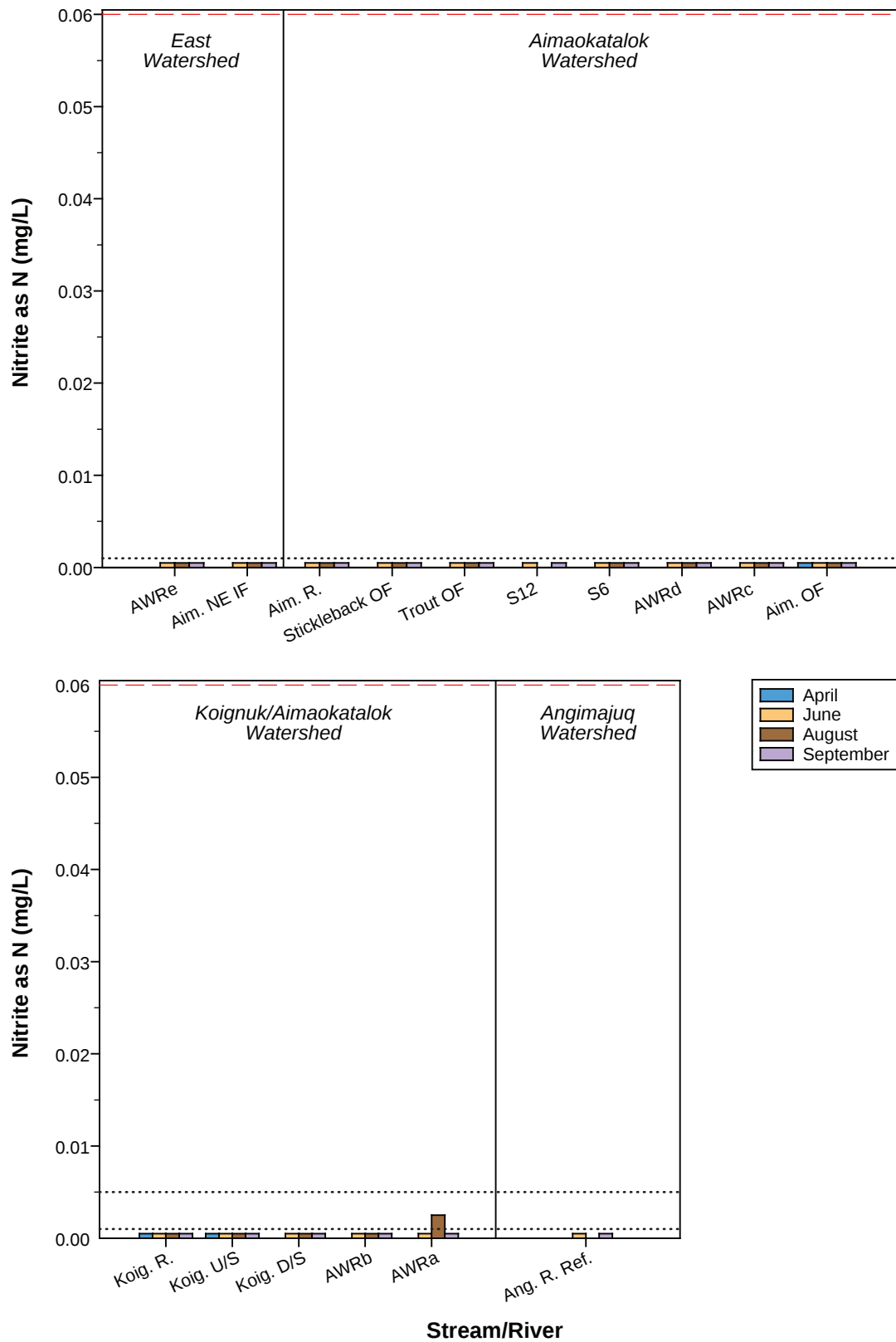


Notes: Error bars represent standard error of the mean of replicates.

Dotted lines represent analytical detection limit (0.005 or 0.025 mg/L); values below the detection limit are plotted at half the detection limit.

Red dashed line represents CCME guideline (2.9 mg/L).

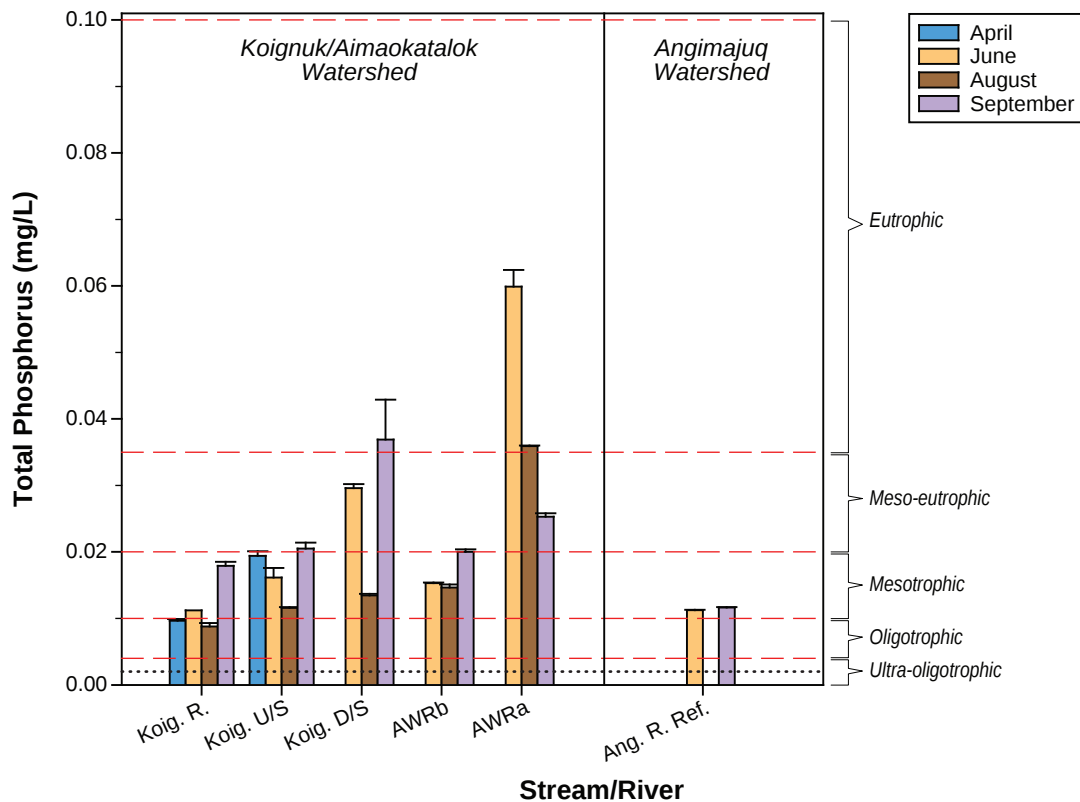
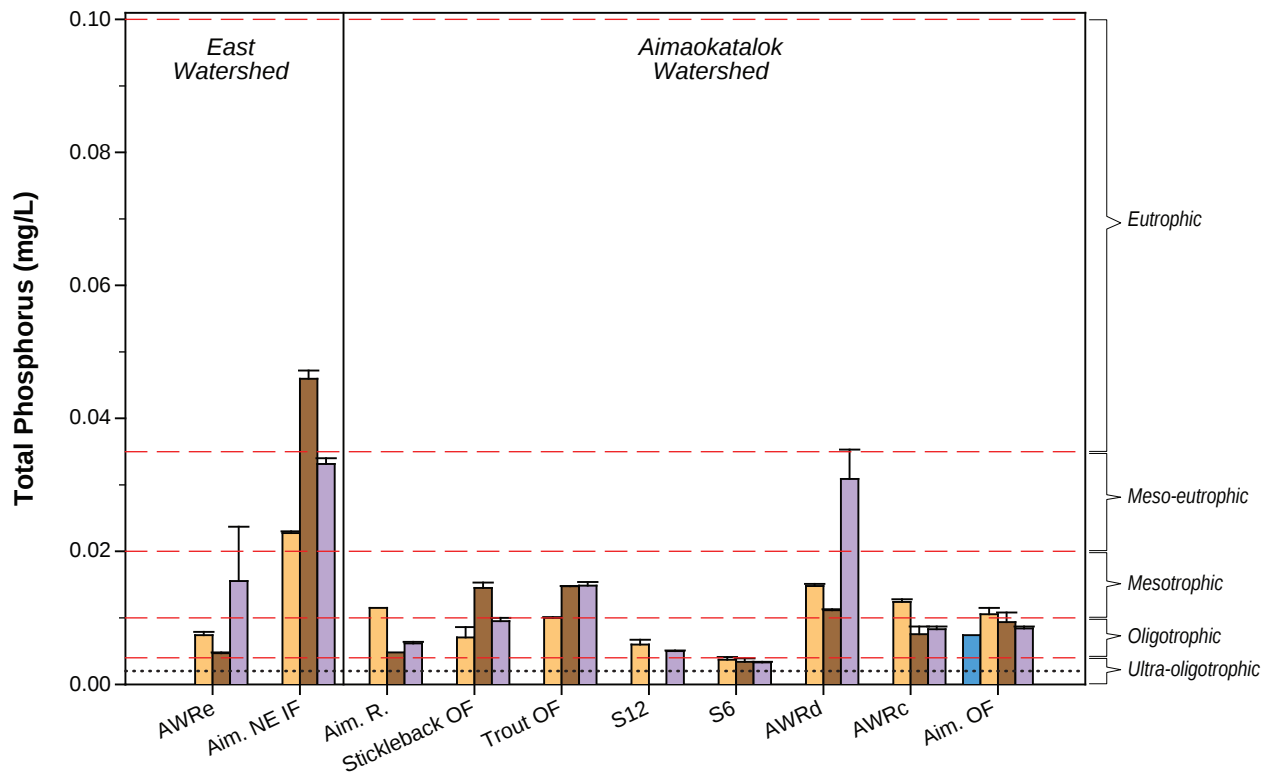
Figure 3.3-1h



Notes: Error bars represent standard error of the mean of replicates.

Dotted lines represent analytical detection limit (0.001 or 0.005 mg/L); values below the detection limit are plotted at half the detection limit.

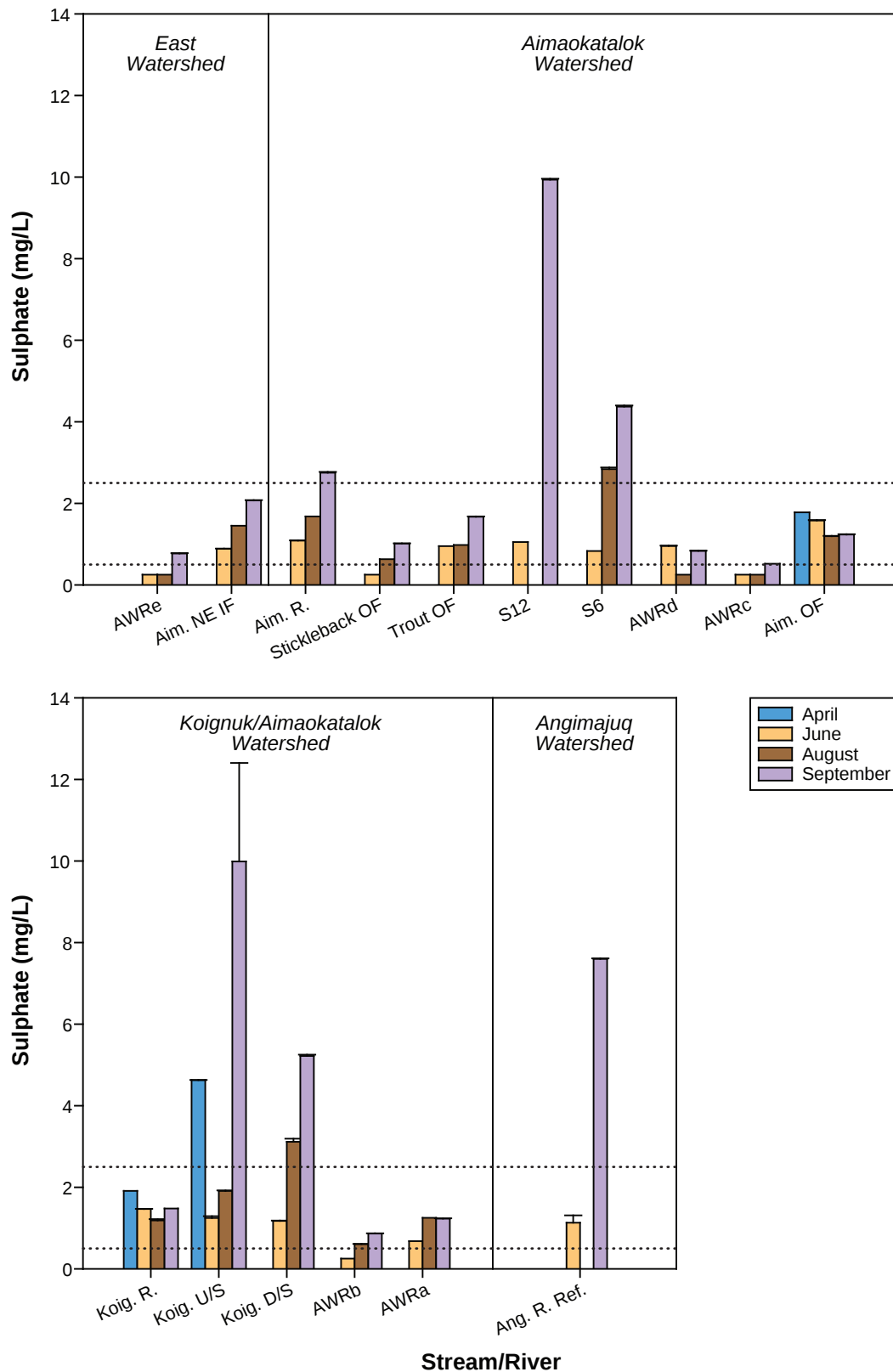
Red dashed line represents CCME guideline (0.06 mg/L).



Notes: Error bars represent standard error of the mean of replicates.

Dotted line represents analytical detection limit (0.002 mg/L).

Red dashed lines represents CCME trigger ranges (<0.004 mg/L = ultraoligotrophic; 0.004–0.010 mg/L = oligotrophic; 0.01–0.02 mg/L = mesotrophic; 0.02–0.035 mg/L = meso-eutrophic; 0.035–0.1 mg/L = eutrophic; >0.1 mg/L = hyper-eutrophic).

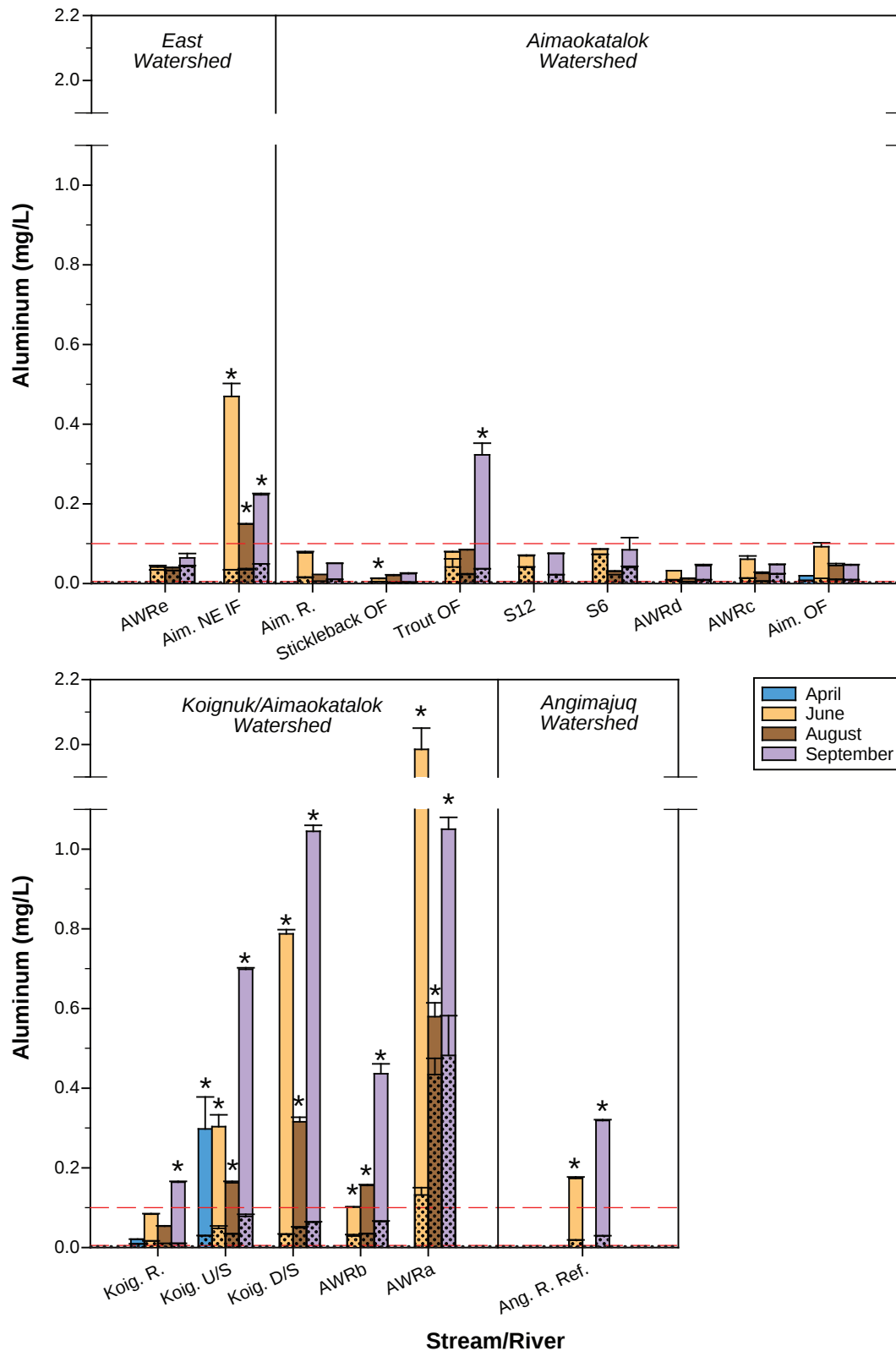


Notes: Error bars represent standard error of the mean of replicates.

Dotted lines represent analytical detection limit (0.5 or 2.5 mg/L); values below the detection limit are plotted at half the detection limit.

There is no CCME guideline for sulphate.

Figure 3.3-1k



Notes: Error bars represent standard error of the mean of replicates.

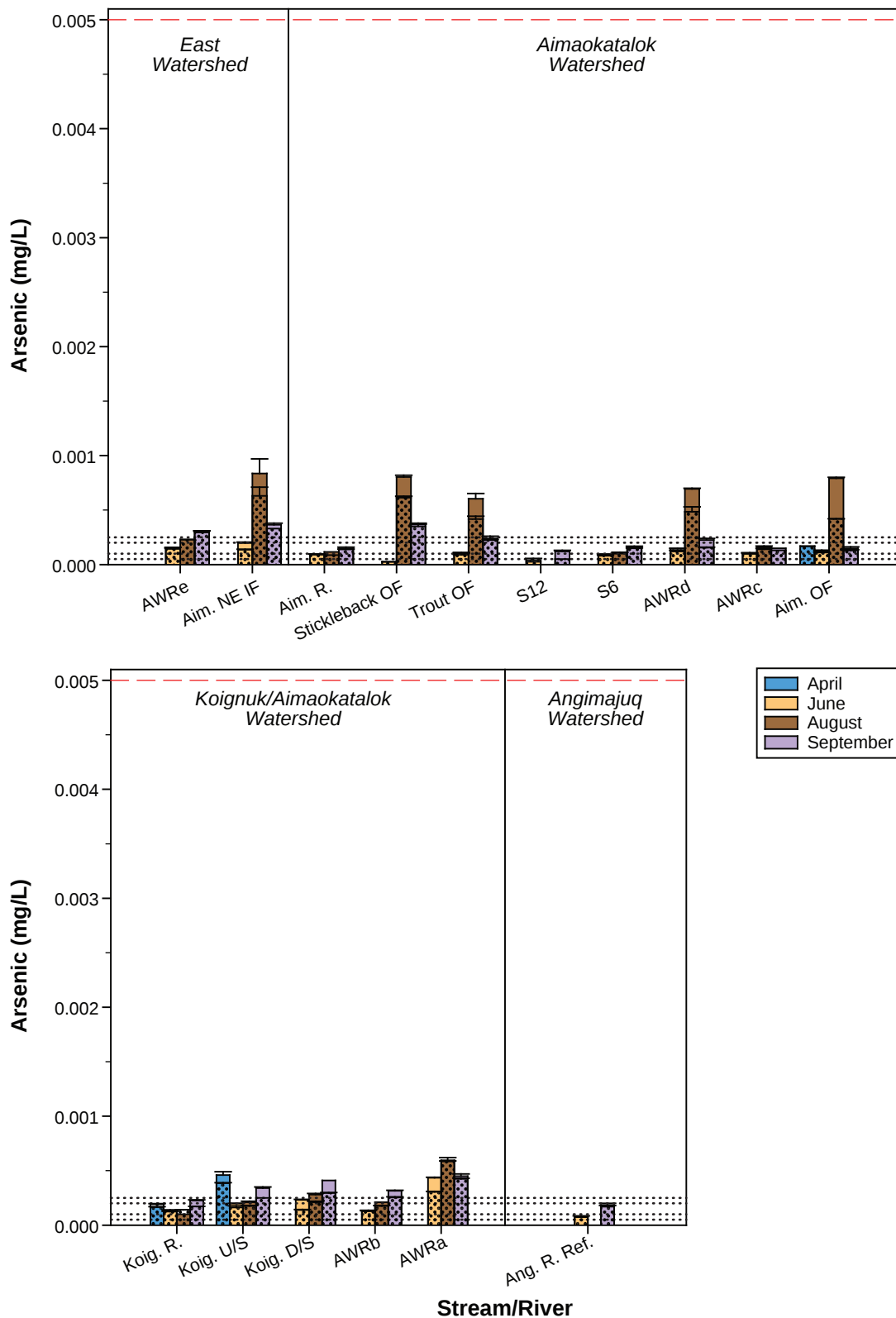
Dotted lines represent analytical detection limit (0.001 mg/L).

Red dashed lines represent pH-dependent CCME guideline (0.005 mg/L at pH less than 6.5; 0.1 mg/L at pH greater than or equal to 6.5).

pH was greater than 6.5 in all samples except Stickleback OF in June.

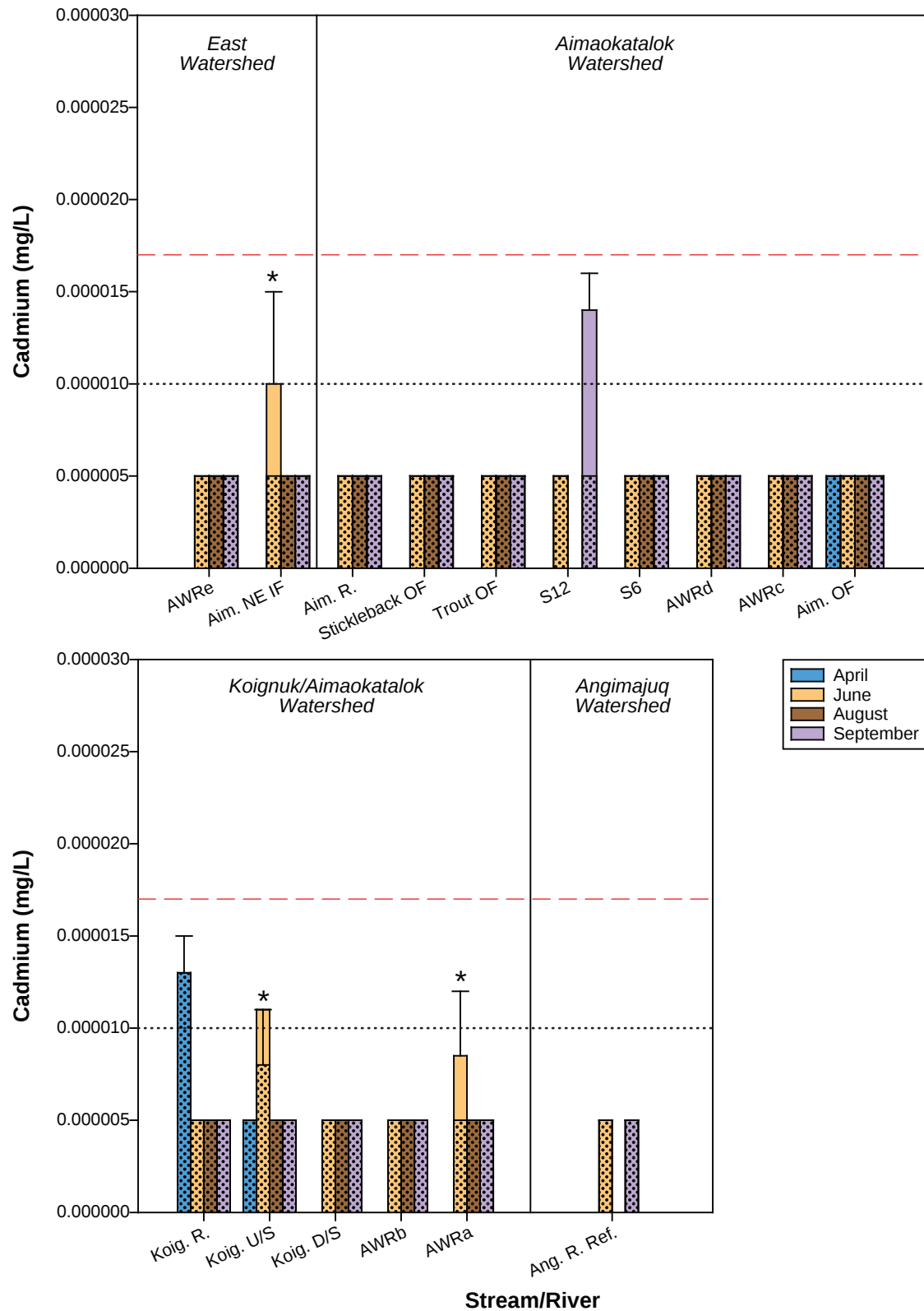
Solid columns represent total aluminum and superimposed dotted columns represent dissolved aluminum.

* Indicates average total aluminum values that are higher than CCME guideline.



Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.00005, 0.0001, 0.0002, or 0.00025 mg/L);
values below the detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline (0.005 mg/L).
Solid columns represent total arsenic and superimposed dotted columns represent dissolved arsenic.

Figure 3.3-1m



Notes: Error bars represent standard error of the mean of replicates.

Dotted lines represent analytical detection limit (0.00001 mg/L); values below the detection limit are plotted at half the detection limit.

Red dashed line represents CCME guideline (0.000017 mg/L). The equation for correcting this guideline for hardness is: $10^{(0.86[\log(\text{hardness})]-3.2)/1000}$

Solid columns represent total cadmium and superimposed dotted columns represent dissolved cadmium.

* Indicates average total cadmium values that are higher than hardness-corrected CCME guideline.

Figure 3.3-1n

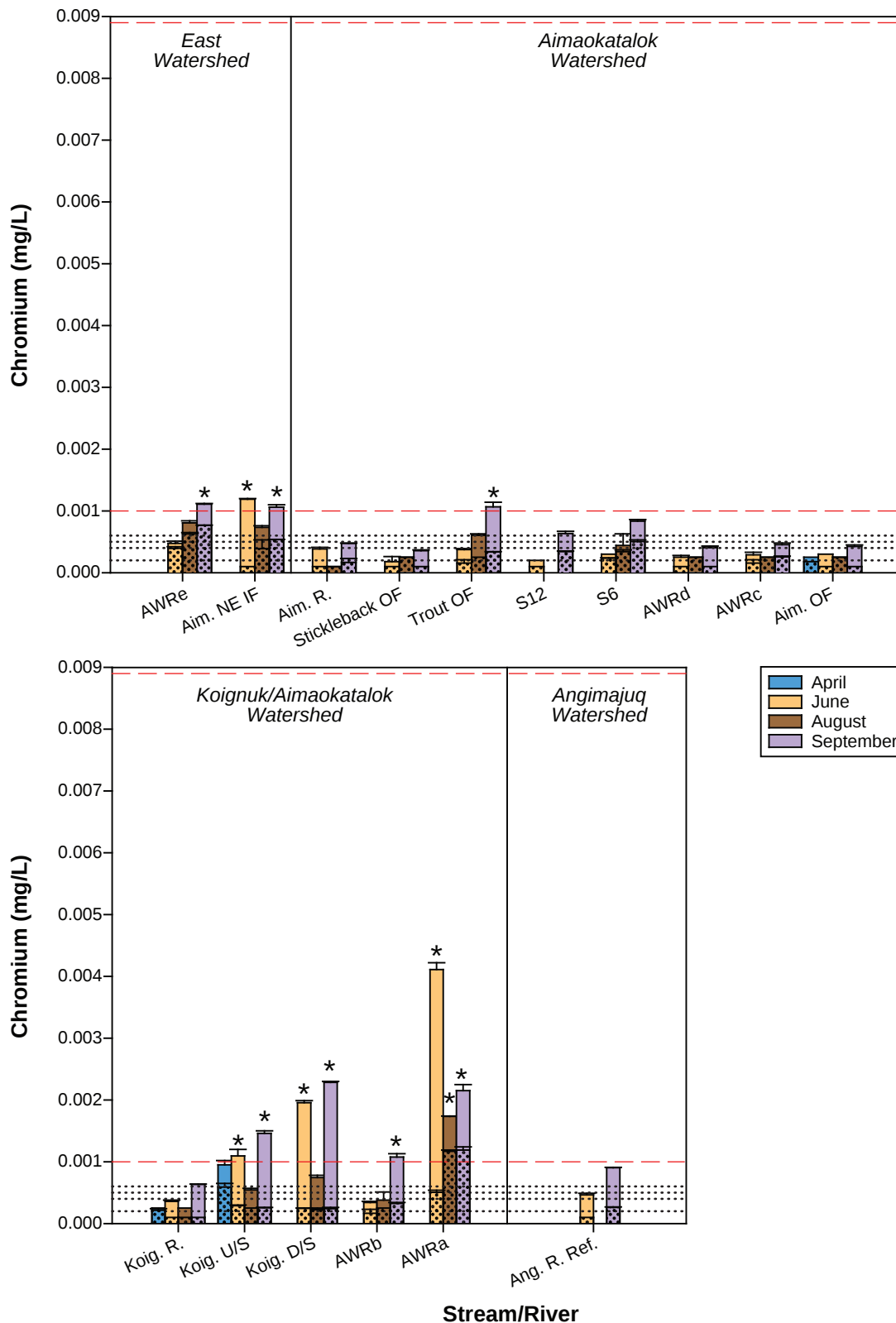
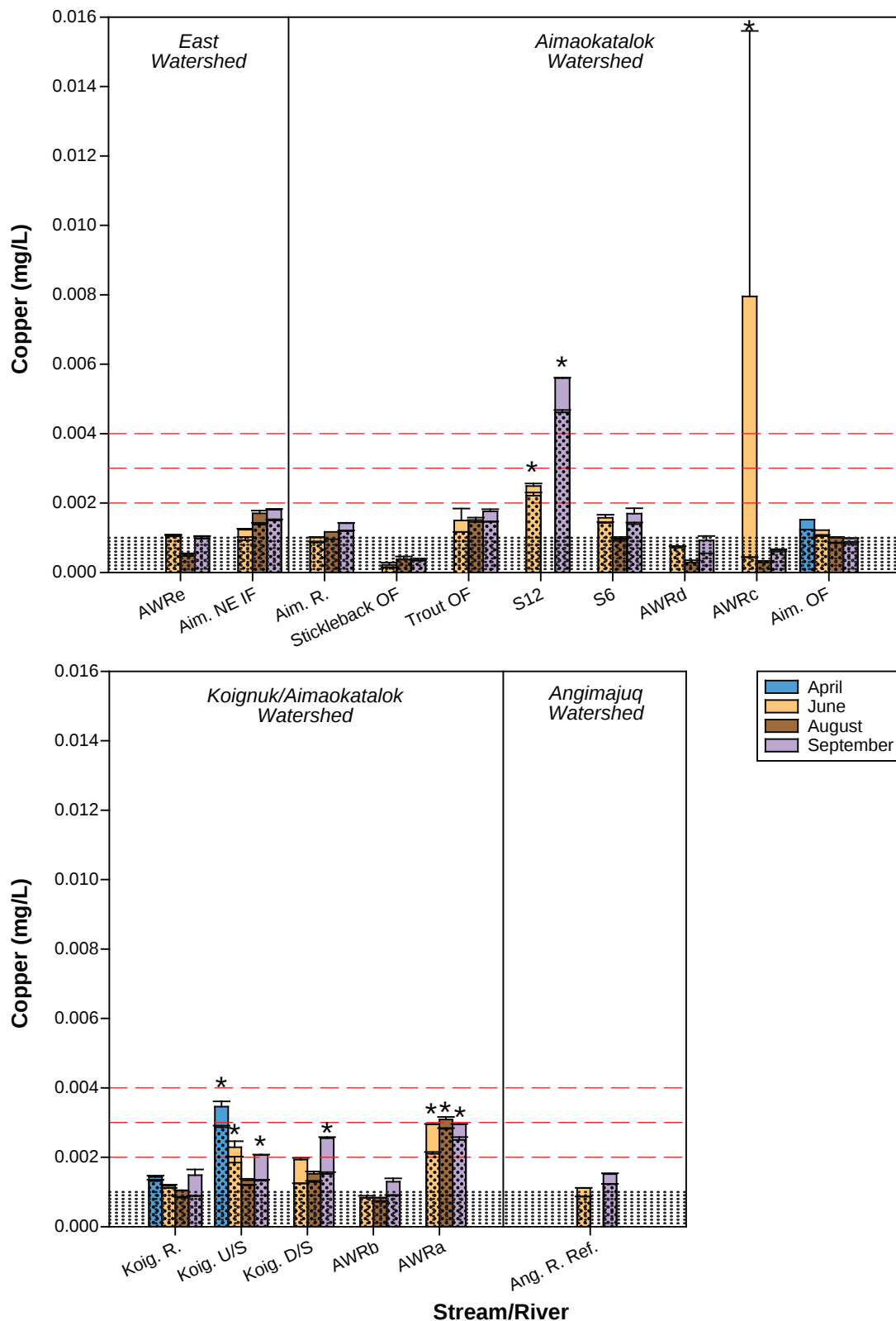


Figure 3.3-1o



Notes: Error bars represent standard error of the mean of replicates.

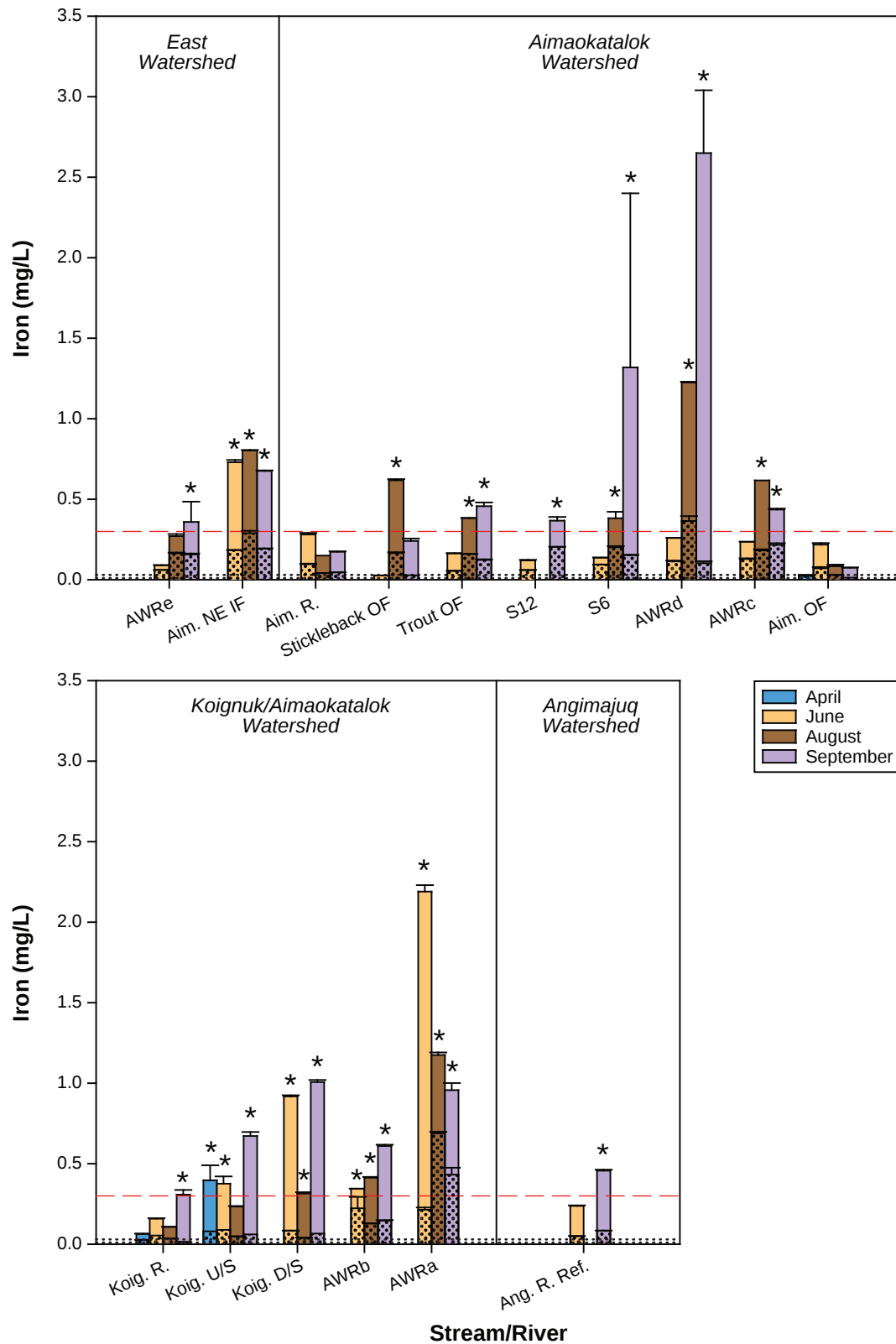
Dotted lines represent analytical detection limit (0.0001, 0.0002, 0.0003, 0.0004, 0.0005, 0.0006, 0.0007, 0.0008, 0.0009, or 0.001 mg/L); values below the detection limit are plotted at half the detection limit.

Red dashed lines represent hardness-dependent CCME guideline (0.002 mg/L at $[\text{CaCO}_3] = 0-120 \text{ mg/L}$; 0.003 mg/L at $[\text{CaCO}_3] = 120-180 \text{ mg/L}$; 0.004 mg/L at $[\text{CaCO}_3] = >180 \text{ mg/L}$). All measurements of hardness $[\text{as CaCO}_3]$ in streams were $<120 \text{ mg/L}$.

Solid columns represent total copper and superimposed dotted columns represent dissolved copper.

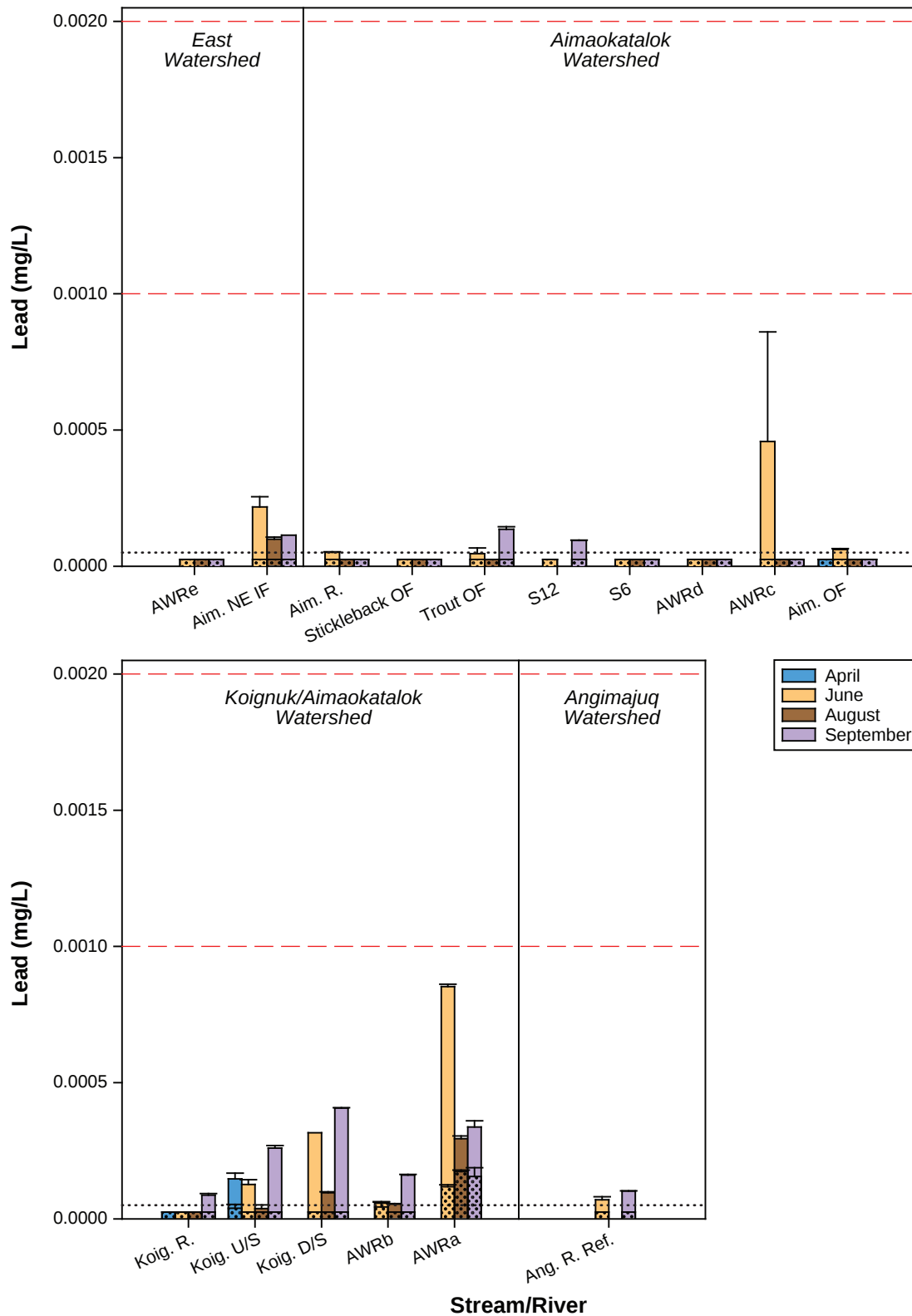
* Indicates average total copper values that are higher than CCME guideline.

Figure 3.3-1p



Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.01 or 0.03 mg/L);
values below the detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline (0.3 mg/L).
Solid columns represent total iron and superimposed dotted columns represent dissolved iron.
* Indicates average total iron values that are higher than CCME guideline.

Figure 3.3-1q



Notes: Error bars represent standard error of the mean of replicates.

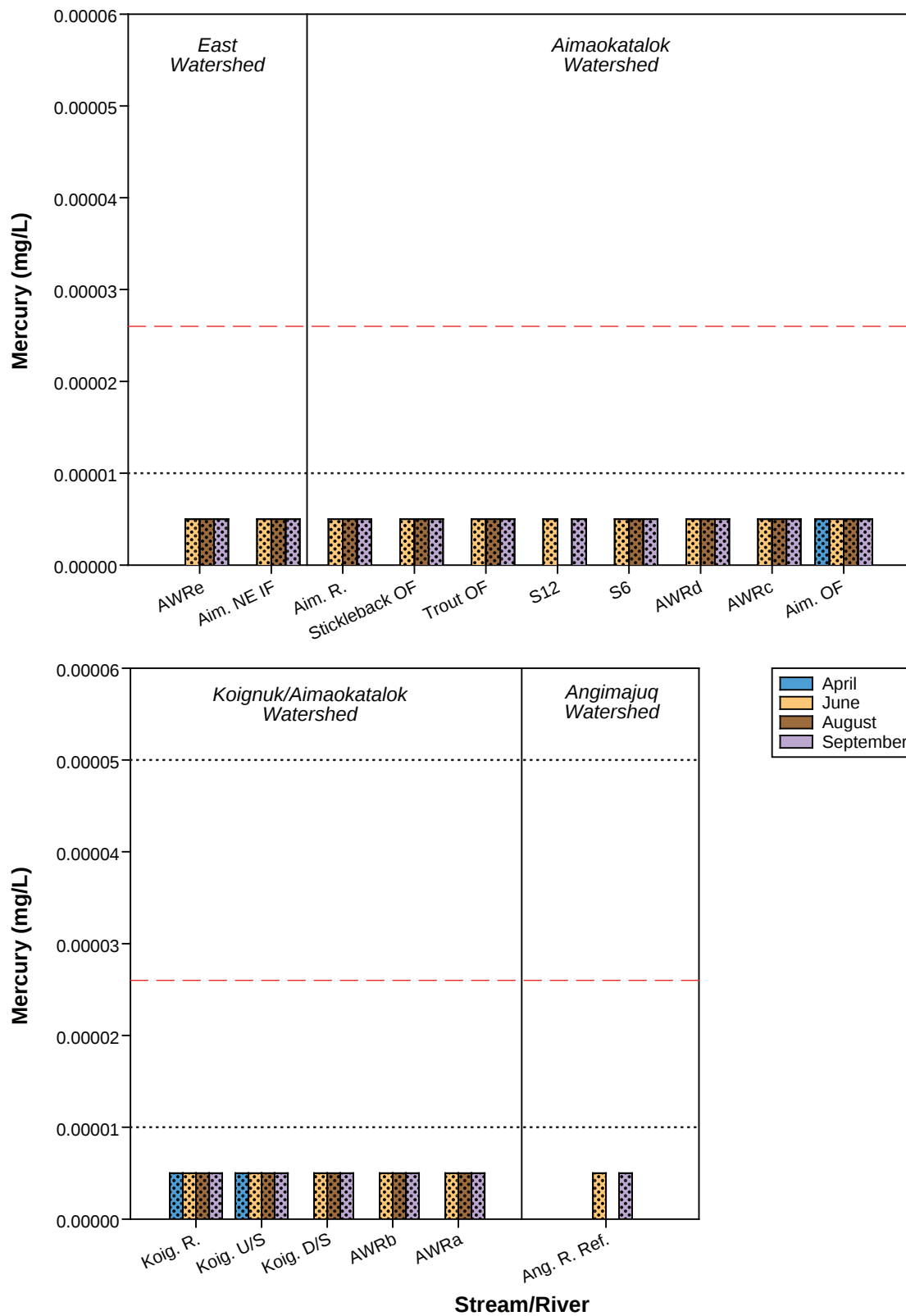
Dotted line represents analytical detection limit (0.00005 mg/L); values below detection limit are plotted at half the detection limit.

Red dashed lines represent CCME guideline (0.001 mg/L at $[CaCO_3] = 0-60$ mg/L; 0.002 mg/L at $[CaCO_3] = 60-120$ mg/L;

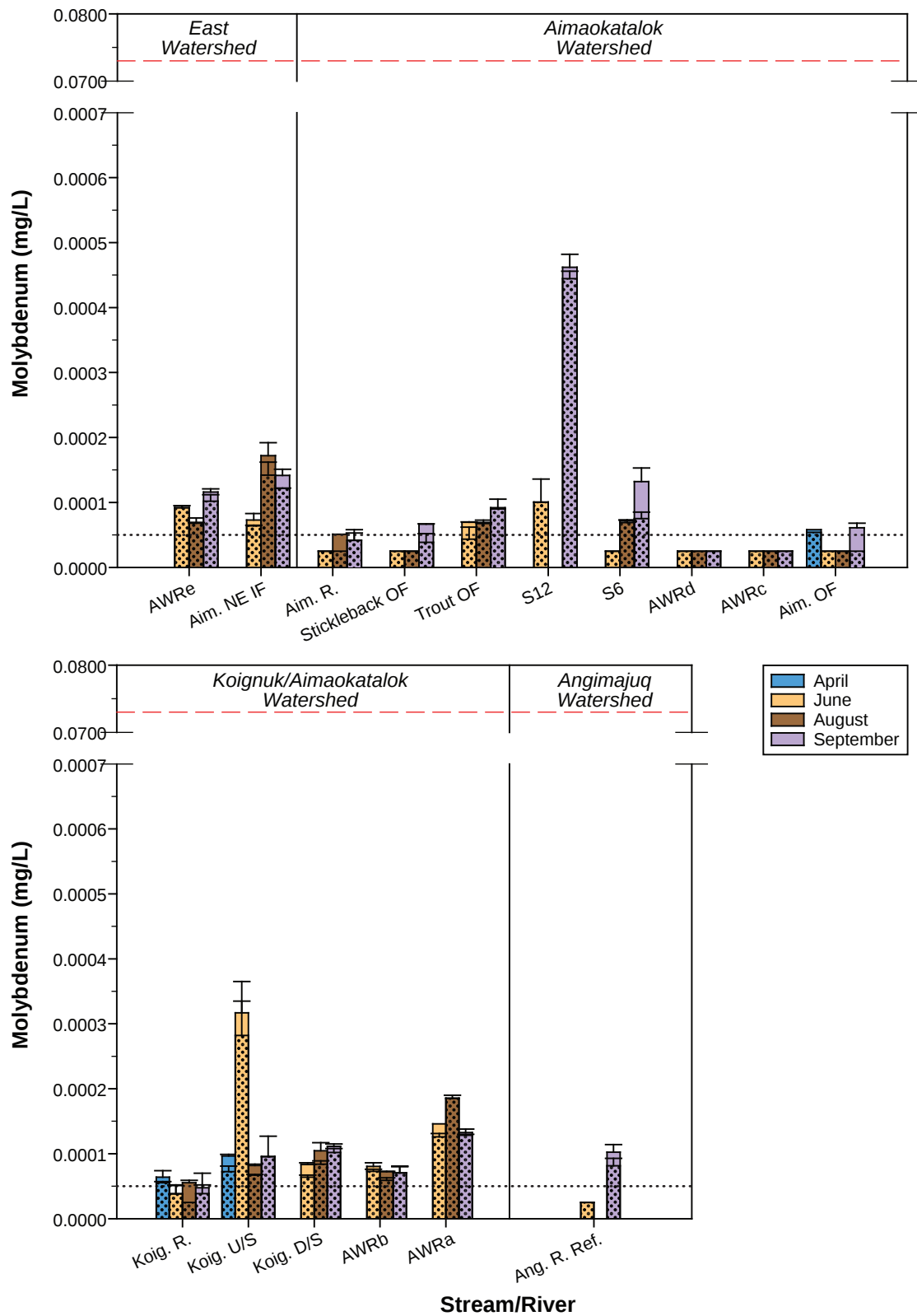
0.004 mg/L at $[CaCO_3] = 120-180$ mg/L [not shown]; 0.007 mg/L at $[CaCO_3] = >180$ mg/L [not shown]).

All measurements of hardness [as $CaCO_3$] in streams were <120 mg/L.

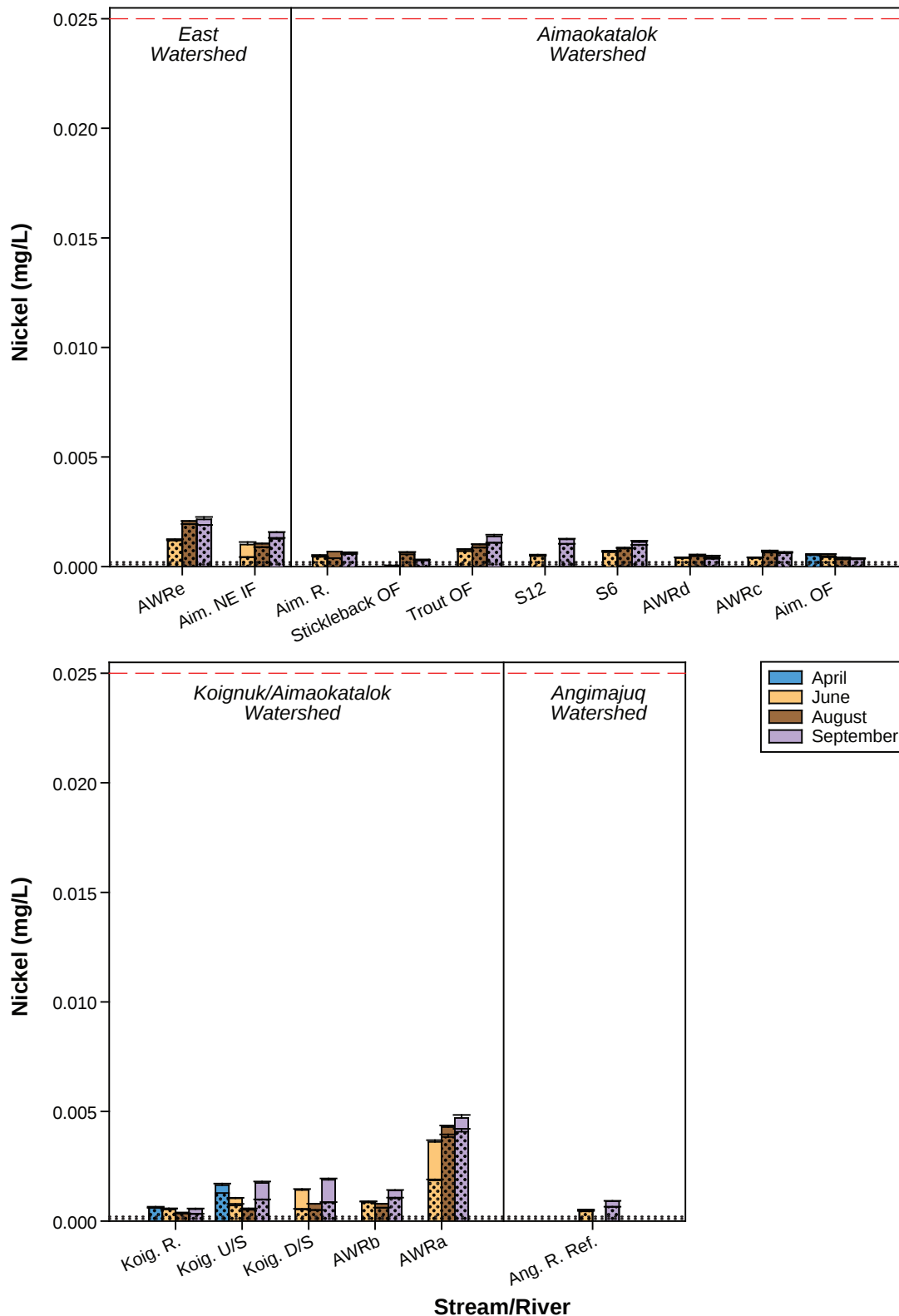
Solid columns represent total lead and superimposed dotted columns represent dissolved lead.



Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.00001 or 0.00005 mg/L); values below detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline for inorganic mercury (0.000026 mg/L); the interim CCME guideline for methylmercury (0.000004 mg/L) is not shown.
Solid columns represent total mercury and superimposed dotted columns represent dissolved mercury.



Notes: Error bars represent standard error of the mean of replicates.
Dotted line represents analytical detection limit (0.00005 mg/L);
values below the detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline (0.073 mg/L).
Solid columns represent total molybdenum and superimposed dotted columns represent dissolved molybdenum.



Notes: Error bars represent standard error of the mean of replicates.

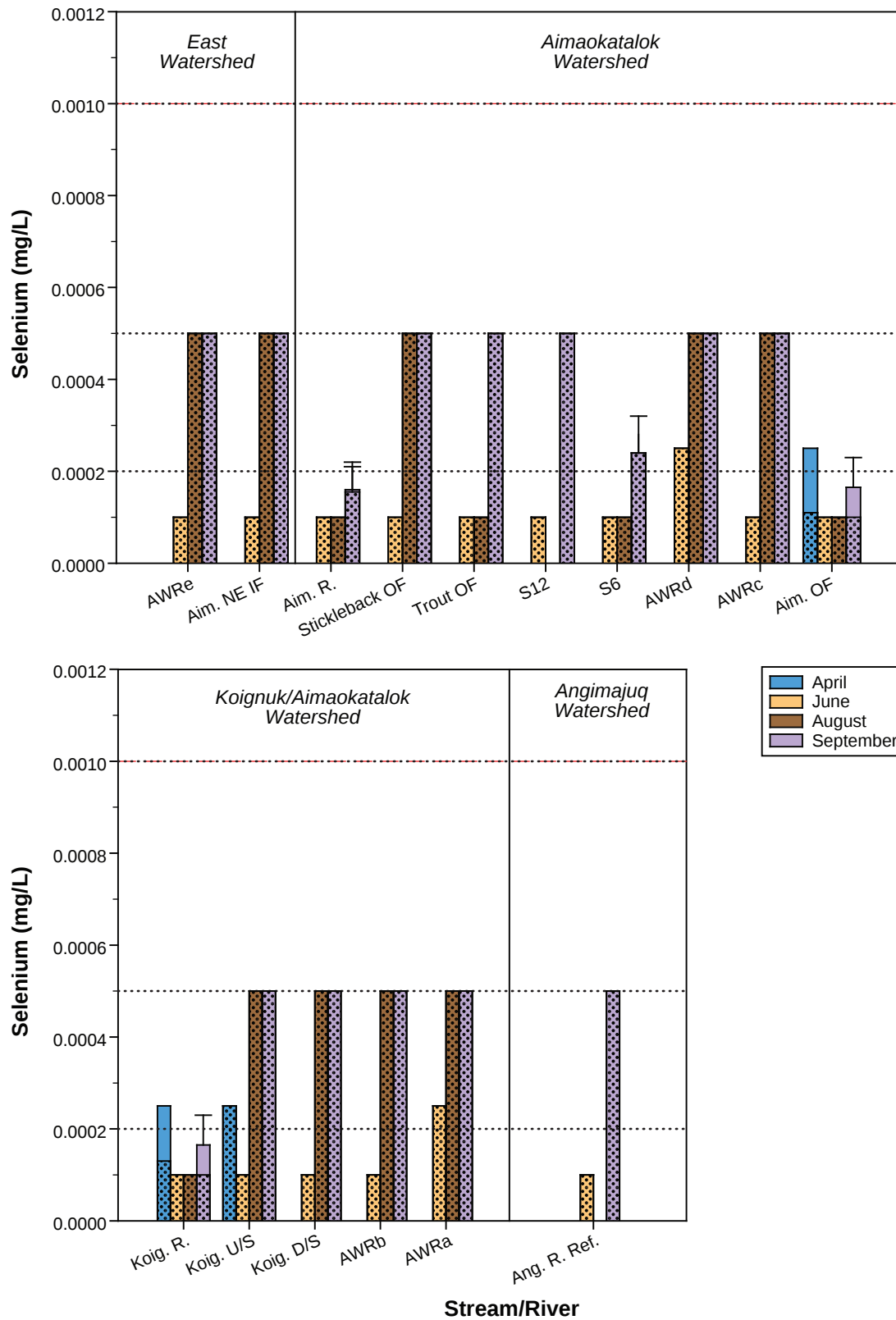
Dotted lines represent analytical detection limit (0.0001 or 0.0002 mg/L); values below the detection limit are plotted at half the detection limit.

Red dashed lines represent hardness-dependent CCME guideline (0.025 mg/L at $[\text{CaCO}_3] = 0-60 \text{ mg/L}$; 0.065 mg/L at $[\text{CaCO}_3] = 60-120 \text{ mg/L}$ [not shown]; 0.110 mg/L at $[\text{CaCO}_3] = 120-180 \text{ mg/L}$ [not shown]; 0.150 mg/L at $[\text{CaCO}_3] = >180 \text{ mg/L}$ [not shown]).

All measurements of hardness [as CaCO_3] in streams were $<120 \text{ mg/L}$.

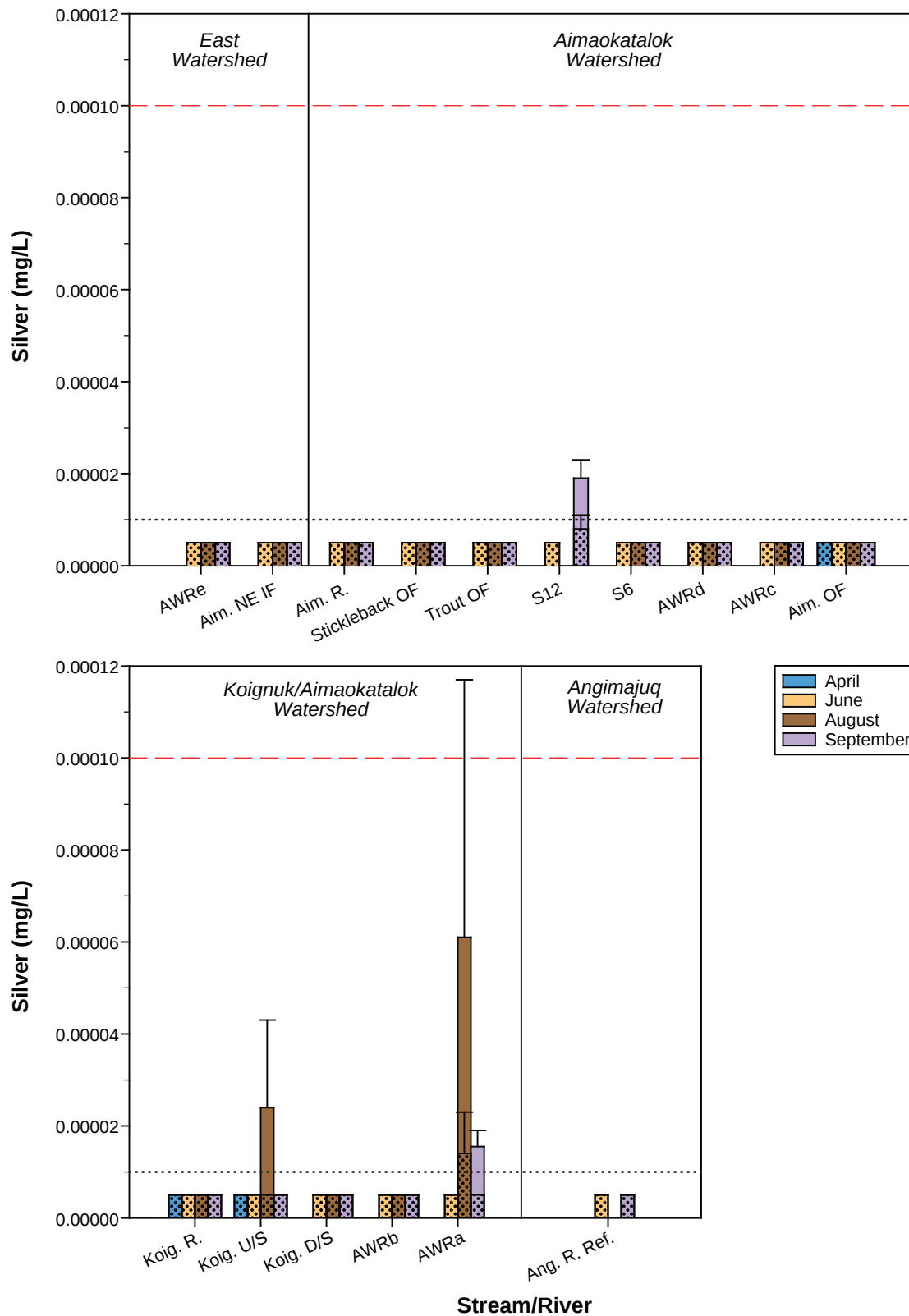
Solid columns represent total nickel and superimposed dotted columns represent dissolved nickel.

Figure 3.3-1u



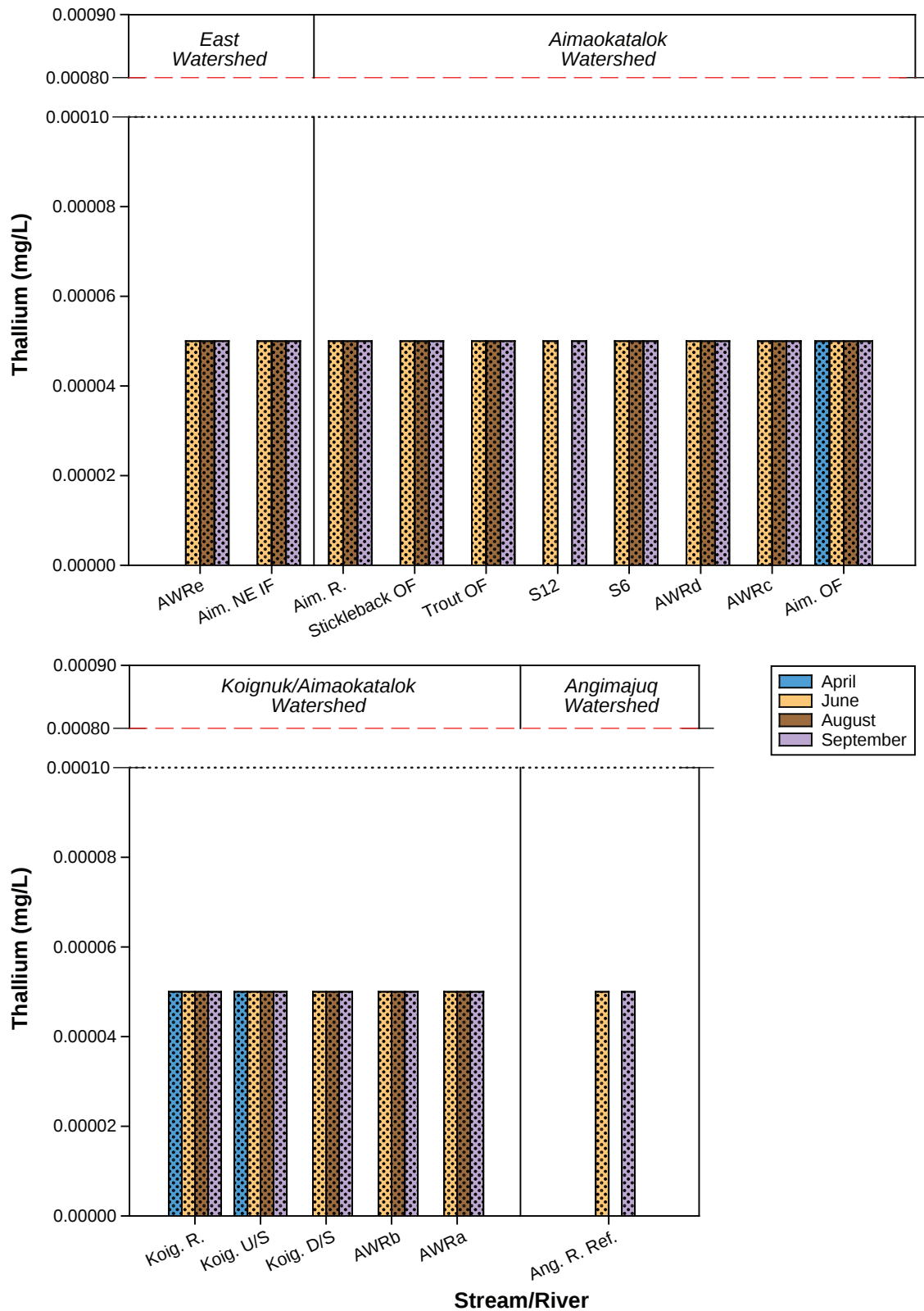
Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.0002, 0.0005, or 0.001 mg/L);
values below the detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline (0.001 mg/L).
Solid columns represent total selenium and superimposed dotted columns represent dissolved selenium.

Figure 3.3-1v



Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.00001 mg/L);
values below the detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline (0.0001 mg/L).
Solid columns represent total silver and superimposed dotted columns represent dissolved silver.

Figure 3.3-1w



Notes: Error bars represent standard error of the mean of replicates.
Dotted lines represent analytical detection limit (0.0001 mg/L);
values below the detection limit are plotted at half the detection limit.
Red dashed line represents CCME guideline (0.0008 mg/L).
Solid columns represent total thallium and superimposed dotted columns represent dissolved thallium.