

Revision History

Publication Series and Series Number: Scientific Investigations Report 2006-5211

Publication Title: Characterization of Dissolved Solids in Water Resources of Agricultural Lands near Manila, Utah, 2004-05

Publication Authorship: S.J. Gerner, L.E. Spangler, B.A. Kimball, and D.L. Naftz

First Version and Date of Release: 1.0 October 18, 2006

Current Version and Date of Current Release: 2.0 July 10, 2007

After publication, an error was found in the calculation of the daily total adjusted dissolved-solid loads (TADSLs) that were discharged from the study area during the study period. Correction of this error has resulted in a modification of the regression model used to calculate daily TADSLs and revised daily TADSLs. The updated TADSLs were used to revise the estimated dissolved-solids load discharged from the study area from July 1, 2004, to June 30, 2005. Text and figures in the report were changed to reflect these revised values.

We apologize for any inconvenience these errors may have caused.

List of Changes for Revision 2.0

As a result of textual changes in the report the location of text on pages 10-22 has changed from the original version.

On Cover:

Addition of “Version 2.0, June 2007” under report series and number.

On Title page:

Addition of “Version 2.0, June 2007” under report series and number.

On page 1—under Abstract, second paragraph:

Changed from “Daily dissolved-solid loads ... ranged from 90 to 289 tons per day with a mean of 142 tons per day. The estimated annual dissolved-solids load discharging to the reservoir from the study area, less the amount of dissolved solids imported by canals, for the same period was 51,900 tons. Of this 51,900 tons ...”

Changed to “Daily dissolved-solid loads ... ranged from 72 to 241 tons per day with a mean of 110 tons per day. The estimated annual dissolved-solids load

discharging to the reservoir from the study area, less the amount of dissolved solids imported by canals, for the same period was 40,200 tons. Of this 40,200 tons ...”

On page 10—under Dissolved-Solids Load Calculations:

First paragraph:

Changed from “The total load calculated for the 16 sites...”

Changed to “The total load calculated for the 15 sites...”

Second paragraph:

Changed from “ $TADSL = 77.6012 + 1.0709ML + 24.2308\cos(2\pi T) - 2.7526\sin(2\pi T) + e$ ”

Changed to “ $TADSL = 59.4854 + 0.8394ML + e$ ”

Deleted “*T* is time in decimal years; and”

Third paragraph:

Changed from “...first term...”

Changed to “...variable *ML*...”

Deleted “The second and third terms account for seasonal variation between TADSL and dissolved-solids load at the fixed outflow-monitoring sites.”

Changed from “...(14.94 on 3 and 5 degrees of freedom)...a p-value of 0.006.”

Changed to “...(27.83 on 1 and 7 degrees of freedom)...a p-value of 0.001.”

Changed from “...for this model is 0.90.”

Changed to “...for this model is 0.80.”

Figure 4:

Replaced with revised figure.

On page 14—under Discharge of Dissolved Solids into Flaming Gorge Reservoir:

First full paragraph:

Changed from “Daily TADSL ranged from 90 to 289 tons/d with a mean of 142 tons/d.”

Changed to “Daily TADSL ranged from 72 to 241 tons/d with a mean of 110 tons/d.”

Second paragraph:

Changed from “The aggregate...is 51,900 tons.”

Changed to “The aggregate...is 40,200 tons.”

On page 15—under Discharge of Dissolved Solids into Flaming Gorge Reservoir:

Table 7:

Changed the table footnote from “...the load from Antelope Wash.”

Changed the table footnote to “...the load that was discharged to Henrys Fork from Antelope Wash (site AW-1).”

First paragraph

Changed from “...results in the more conservative estimate of 42,900 tons...”

Changed to “...results in the more conservative estimate of 31,200 tons...”

On page 16

Figure 7:

Replaced with revised figure.

On page 17

Figure 8:

Replaced with revised figure.

On page 22 under Summary, third paragraph

Changed from “...ranged from 90 to 289 tons/d with a mean of 142 tons/d. The estimated annual dissolved-solids load discharging to FGR from the study area, less the amount of dissolved solids imported by canals, for the same period, was 51,900 tons; however, of this 51,900 tons...”

Changed to "...ranged from 72 to 241 tons/d with a mean of 110 tons/d. The estimated annual dissolved-solids load discharging to FGR from the study area, less the amount of dissolved solids imported by canals, for the same period, was 40,200 tons; however, of this 40,200 tons..."