

**Susitna-Watana Hydroelectric Project
(FERC No. 14241)**

**Geomorphology Study
Study Plan Section 6.5**

**Initial Study Report
Part B: Supplemental Information (and Errata) to
Part A (February 3, 2014 Draft Initial Study Report)**

Prepared for

Alaska Energy Authority



SUSITNA-WATANA HYDRO

Clean, reliable energy for the next 100 years.

Prepared by

Tetra Tech

June 2014

**PART B: SUPPLEMENTAL INFORMATION (AND ERRATA) TO PART A
(FEBRUARY 3, 2014 DRAFT INITIAL STUDY REPORT)**

Part A Reference	Description
Passim	As explained in the ISR Overview and depicted in Figure 1, following release of the draft ISR in February 2014, AEA added a new north-south transmission and access corridor alignment from the dam site to the Denali Highway. This new alignment is referred to as the Denali East Option. For clarity, the north-south alignment studied to date (and historically referred to as the Denali Corridor) is now referred to as the Denali West Option. Hence, all references in Part A to the “Denali Corridor” are referencing the newly designated Denali West Option.
ISR 6.5, Page 61, Section 4.9.3.	A second variance was omitted from the section. The following text should be added: “The second variance is the Study Plan indicated LWD field data collection would occur in the summer of 2013 (RSP Section 6.5.4.9.2). Due to lack of access to CIRWG lands and weather issues, not all of the field work was completed in 2013. The remaining field work will be completed in 2014/2015. No additional changes to the Study Plan are anticipated in 2014/2015.”
ISR 6.5, Page 62, Section 4.10, 3 rd paragraph, 1 st sentence.	The sentence should read “The alignments currently under consideration are designated as Denali West, Denali East, Chulitna, and Gold Creek.”
ISR 6.5, Page 122, Section 6.8.3, 1 st sentence.	The sentence should read “The reservoir erosion assessment will take place in 2014 and 2015 and will be provided in the Updated Study Report (USR).”
ISR 6.5, Page 123, Section 6.10, 1 st sentence.	The sentence should read “The assessments of the geomorphology of stream crossings along transmission lines and access alignments will take place in 2014 and 2015 and will be provided in the USR.”
ISR 6.5, Page 144, table 4.4-1, 3 rd column, last row.	The correct date should read “9/30-10/1/2012”.
ISR 6.5, Appendix B, Page 8, 1st paragraph, 1 st sentence.	The sentence should read, “For gravel loads at Gold Creek, the pre-Project...”
ISR 6.5, Appendix B, page 16, Table	The table was meant to include the following note, “This estimate for effective discharge corresponds to the second peak shown in Figure 5.2-1.”

5.2-1.	
ISR 6.5, Appendix B, Page 16, Table 6.1-1.	The table was meant to include effective discharge results for gravel bed load in addition to total load. The value for bed material load at Gold Creek Max LF OS-1 should be 23,000 rather than 9,000. The corrected table is attached.

Table 6.1-1. Comparison of effective discharge for the mainstem of the Susitna River under pre-Project and Maximum Load Following OS-1 conditions.

	Gold Creek		Sunshine		Susitna Station	
	pre-Project	MAX LF OS-1	pre-Project	MAX LF OS-1	pre-Project	MAX LF OS-1
Bed Material Load $Q_{\text{Effective}}$ (cfs)	27,000	23,000 ¹	66,000	46,000	124,000	108,000
Gravel Bed Load $Q_{\text{Effective}}$ (cfs)	79,000	37,000	66,000	54,000	124,000	108,000

Notes:

1 This estimate for effective discharge corresponds to the second peak shown in Figure 5.2-1.