Erratum

2006 Colville River Delta and Fish Creek Basin Spring Breakup and Hydrological Assessment

The elevation of Monument 1 control should be changed from 27.59-feet to 27.93-feet (BPMSL). Reported 2006 water surface elevations at Monument 1 Upstream, Monument 1, and Monument 1 Downstream should also be corrected by the associated difference of plus (+) 0.34-feet.

Tabular and graphical data with corrected elevation values are attached (Graph 4-1, Table 4-19, Table 4-20, Table 4-21, Table 4-22, and Table A-1). Additional tables and graphs containing 2006 elevation data at Monument 1 (i.e. Section 6.0 Colville River Delta Flood and Stage Frequency) are not presented here.

Table 4-20 does not represent Monument 1Upstream and 1Downstream data as stated. The correct table is presented here.



Table 4-1 Measured Daily Discharge Summary – Monument 1

Site Number	Date & Time	WSE (ft)	Made By	Mean Width (ft)	Mean Area (ft²)	Mean Velocity (ft/s)	Mean Discharge (cfs)	Corrected Discharge ¹ (cfs)	MS Rated ²	Number of Transects	MS Type
Mon 1D	5/29/06 17:00	19.66	MDM, MTA	3,486	73,253	3.28	240,135	273,000	Р	4	ADCP
Mon 1D	5/30/06 14:00	19.20	MDM, MTA	3,487	71,786	3.70	265,398	281,000	Р	4	ADCP
Mon 1	5/31/06 17:00	14.03	MDM, MTA	2,951	46,259	4.36	201,270	210,000	Р	6	ADCP
Mon 1	6/1/06 16:00	11.41	MDM, MTA	3,099	43,237	3.71	153,206	168,000	F	6	ADCP

 Corrected Discharge - Average velocity of moving bed from Loop Test applied to each transect
 Measured Rating - E - Excellent, G - Good, F - Fair, P - Poor Notes:

Graph 4-1 Monument 1 Rating Curve with Observed Direct Discharge Values

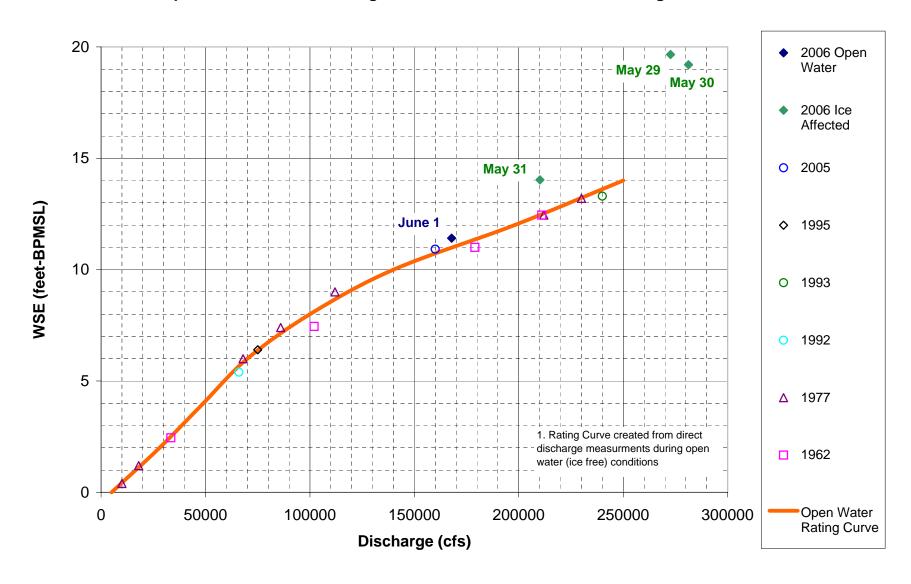


Table 4-2 Colville Rive Breakup Peak Annual Discharge, 1992-2006

Year		Monument 1 Peak Disc	Monument 1 Peak Water Surface Elevation (feet-BPMSL)			
	Discharge	Method	Reference	Mon 1	Reference	
2006	281,000	ADCP Measurement	This report	19.83	This report	
2005	195,000	Estimated-Mon 1 Rating Curve	Baker 2005	13.18	Baker 2005	
2004	360,000	Estimated-Indirect Calculation	Baker 2004	19.54	Baker 2004	
2003	232,000	Estimated-Mon 1 Rating Curve	Baker 2006	13.76	Baker 2003	
2002	249,000	Estimated-Mon 1 Rating Curve	Baker 2006	16.87	Baker 2002d	
2001	255,000	Estimated-Mon 1 Rating Curve	Baker 2006	17.37	Baker 2001	
2000	580,000	Estimated-Indirect Calculation	Baker 2000	19.33	Baker 2000	
1999	203,000	Estimated-Indirect Calculation	Baker 1999	13.97	Baker 1999	
1998	213,000	Estimated-Indirect Calculation	Baker 1998	18.11	Baker 1998	
1997	177,000	Estimated-Indirect Calculation	Baker 2002a	15.05	Baker 1999	
1996	160,000	Estimated-Indirect Calculation	Shannon & Wilson 1996a	17.19	Shannon & Wilson 1996a	
1995	233,000	Estimated-Indirect Calculation	ABR 1996	14.88	Shannon & Wilson 1996a	
1994	165,000	Estimated-Indirect Calculation	ABR 1994b	12.20	ABR 1996	
1993	379,000	Estimated-Indirect Calculation	ABR 1994a	19.20	ABR 1996	
1992	164,000	Estimated-Indirect Calculation	ABR 1993	13.90	ABR1996	

Table 4-19 Monument 1

	WSE (ft BPMSL)	Q (cfs)	
Date and Time	Mon1	Mon 1	Observations
5/27/06 4:45 PM	9.88		First water read on gages.
5/28/06 8:00 AM	11.91		Channel ice in reach gone, but ice present on east bank.
5/28/06 4:15 PM	12.91		Ice jam near bifurcation of Niqliq causing flow to divert.
5/29/06 9:15 AM	19.00		Significant stage increase, East Channel mostly ice free.
5/29/06 1:00 PM	19.49		Ice jam spans entire Niqliq channel upstream of Nuiqsut.
5/29/06 4:45 PM	19.66	273,000	Conduct discharge measurement.
5/30/06 7:30 AM	19.78		Intact channel ice on both east and west banks DS of ice jam.
5/30/06 10:00 AM	19.83		High water estimated the morning of 30 May.
5/30/06 11:00 AM	19.59		Ice jam begins to release, stage starts to drop.
5/30/06 12:30 PM	19.20	281,000	Conduct discharge measurement.
5/30/06 2:30 PM	19.07		Stage dropping; East Channel nearly clear of moving ice.
5/31/06 10:30 AM	14.85		Ice jam of East Channel cleared; stranded ice on banks.
5/31/06 4:15 PM	14.03	210,000	Conduct discharge measurement.
6/1/06 2:45 PM	11.41	168,000	Conduct discharge measurement.

- 1. Elevations are based on Monument MON1 of 27.93 feet BPMSL, established by LCMF in 2006.
- 2. WSE line for Monument 9 (Mon9) included for reference.

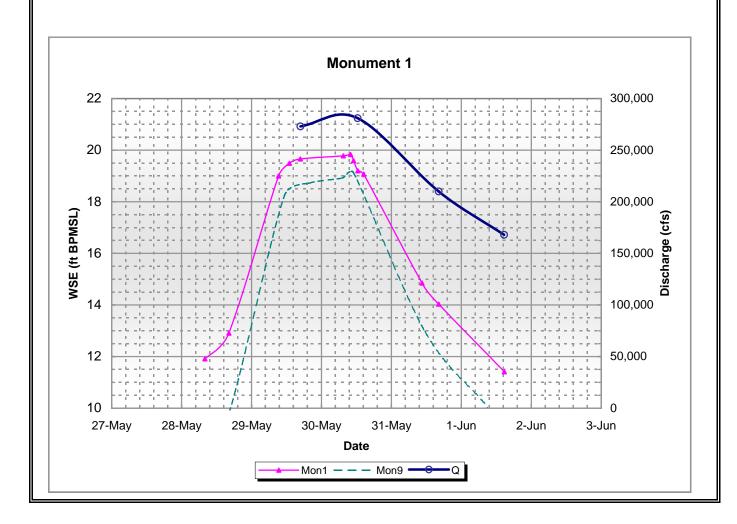


Table 4-20 Monument 1Upstream and 1Downstream

WSE (ft BPMSL)		(ft BPMSL) Q (cfs)		
Date and Time Mon1U Mon1D		Mon 1	Observations	
5/27/06 4:45 PM	10.06			First water read on gages.
5/28/06 8:00 AM	12.14	11.78		Channel ice in reach gone, but ice present on east bank.
5/28/06 4:15 PM	13.23	12.52		Ice jam near bifurcation of Niqliq causing flow to divert.
5/29/06 9:15 AM	19.12	18.75		Significant stage increase, East Channel mostly ice free.
5/29/06 1:00 PM	19.57	19.37		Ice jam spans entire Niqliq channel upstream of Nuiqsut.
5/29/06 4:45 PM	19.78	19.53	273,000	Conduct discharge measurement.
5/30/06 7:30 AM	19.91	19.63		Intact channel ice on both east and west banks DS of ice jam.
5/30/06 10:00 AM	19.93	19.69		High water estimated the morning of 30 May.
5/30/06 11:00 AM	19.75	19.47		Ice jam begins to release, stage starts to drop.
5/30/06 12:30 PM	19.36	18.99	281,000	Conduct discharge measurement.
5/30/06 2:30 PM	19.23	18.86		Stage dropping; East Channel nearly clear of moving ice.
5/31/06 10:30 AM	15.20	14.55		Ice jam of East Channel cleared; stranded ice on banks.
5/31/06 4:15 PM	14.41	13.71	210,000	Conduct discharge measurement.
6/1/06 2:45 PM	11.65	11.08	168,000	Conduct discharge measurement.

- 1. Elevations are based on Monument MON1 of 27.93 feet BPMSL, established by LCMF in 2006.
- 2. WSE lines based on pressure transducer data collected from Mon1U and Mon1D.
- 3. Tabulated values and graph data points from gage readings at Mon1U and Mon1D.

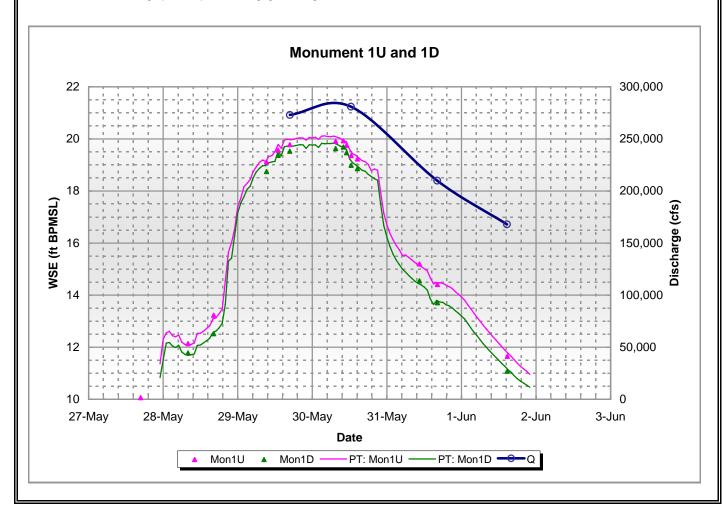


Table 4-21 Monument 9

	WSE (feet BPMSL)	Q (cfs)	
Date and Time	Mon9	4 (0.0)	Observations
5/25/06 9:15 AM	3.62		
5/26/06 2:30 PM	4.07		
5/27/06 12:30 PM	6.86		Observed flow at site.
5/28/06 8:30 AM	9.28		
5/28/06 4:15 PM	9.81		Ice bridge and jam in East channel diverting flow in Niqliq.
5/29/06 11:15 AM	18.22		Ice jam spans East and Nigliq channels.
5/29/06 7:45 PM	18.72		Flow overbank across HDD pad and thermosyphons.
5/30/06 7:15 AM	18.92		
5/30/06 10:00 AM	19.12		High water estimated morning of 30 May.
5/30/06 3:15 PM	18.82		Stage dropping; moving ice near HDD pad.
5/31/06 11:30 AM	12.97		Ice jam on East channel cleared; stranded ice on banks.
6/1/06 9:00 AM	10.05		
6/2/06 8:00 AM	7.78		

- 1. Elevations are based on Monument Mon9 of 25.03 feet BPMSL, established by Lounsbury in 1996.
- 2. WSE lines for Mon1 and Helmricks are presented for reference.
- 3. No discharge measurements were collected for this site.

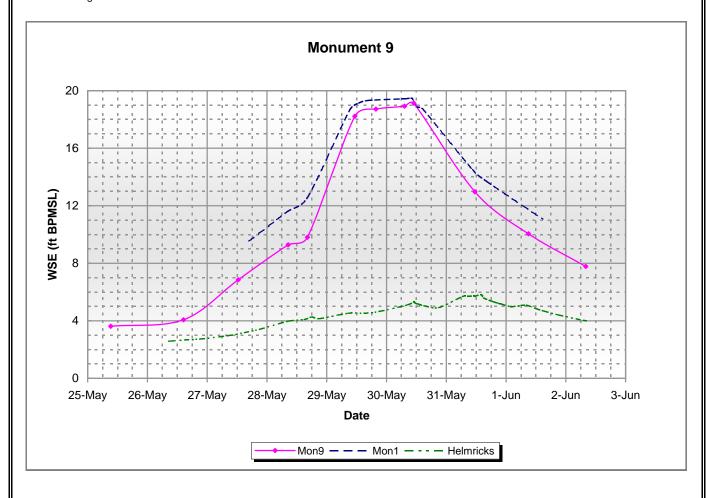


Table 4-22 Helmricks

	WSE (feet BPMSL)	Q (cfs)	
Date and Time	Helmricks	. (: : /	Observations
5/25/06 8:30 AM	2.32		
5/26/06 2:30 PM	2.67		
5/27/06 12:30 PM	3.18		Steady rise in flood waters.
5/28/06 8:30 AM	3.97		
5/28/06 4:15 PM	4.09		
5/29/06 11:15 AM	4.52		Ice jam in East and Nigliq channels observed near Alpine.
5/29/06 7:45 PM	4.65		
5/30/06 7:15 AM	5.11		Peaking in surges; runway half-flooded.
5/30/06 11:00 AM	5.31		
5/30/06 3:15 PM	5.05		Shore lead only, water still flowing into lake.
5/31/06 11:30 AM	5.73		Most of the runway under water; ice jam developed near Dune Island.
6/1/06 9:00 AM	5.07		
6/2/06 8:00 AM	4.01		Channel ice still present in east and main channels.

- 1. Elevations based on observations conducted by James Helmricks.
- 2. WSE lines for Mon1 and Mon9 are presented for reference.
- 3. No discharge measurements were collected for this site.

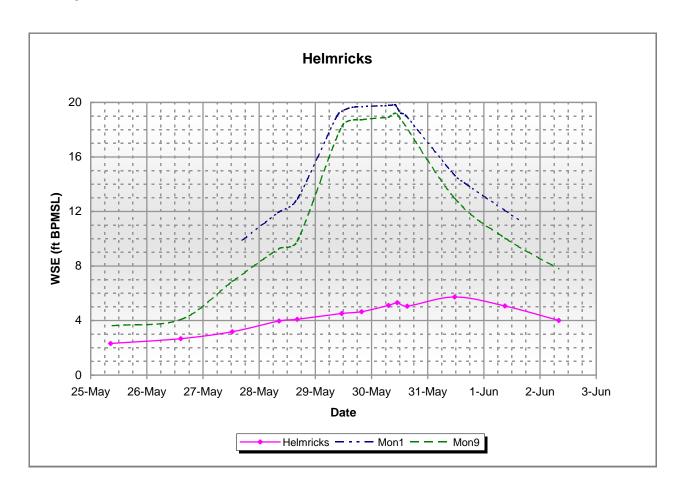


Table A-1: Summary of 2005 Vertical Control Monuments

Table A-1: Summary of 2005 Vertical Control Monuments								
Monument	Elevation	Latitude	Longitude	Monument	Reference			
	(BPMSL - Feet)	(NAD83)	(NAD83)					
05-01-18A	7.75	N 70° 19' 35.1"	W 150° 59' 37.0"	Rebar	LCMF CD4 TBM, 1-23-2005			
05-01-21A	12.17	N 70° 17' 46.4"	W 150° 58' 46.5"	Rebar	LCMF CD4 TBM, 1-26-2005			
05-01-21D	12.44	N 70° 17' 27.7"	W 150° 59' 37.0"	Rebar	LCMF CD4 TBM, 1-26-2005			
ALMA	25.06	N 70° 16' 45.7"	W 151° 19' 53.2"	Alcap	LCMF static gps, 5-11-2005			
AMYLEE	27.50	N 70° 18' 17.1"	W 151° 11' 56.8"	Alcap	LCMF static gps, 5-12-2005			
BAKER	66.51	N 70° 12' 16.1"	W 151° 45' 23.0"	Alcap	LCMF static gps, 5-14-2006			
BRAD	25.78	N 70° 16' 37.4"	W 151° 22' 10.5"	Alcap	LCMF static gps, 5-11-2005			
C2	12.30	N 70° 18' 38.6"	W 151° 25' 31.3"	Rebar	Lounsbury 2002			
CDW	30.69	N 70° 18' 41.7"	W 151° 10' 54.1"	-	LCMF, 10-2003			
CHAR	24.05	N 70° 16' 54.9"	W 151° 17' 41.8"	Alcap	LCMF static gps, 5-11-2005			
Clear 1951	25.50	N 70° 20' 16.1"	W 151° 06' 24.0"	BC	LCMF levels, 8-8-2002			
D1A South	3.90	N 70° 22' 17.7"	W 151° 15' 17.9"	Rebar	Lounsbury 2002			
FIORD 01	9.30	N 70° 24' 27.7"	W 150° 52' 40.2"	Alcap	LCMF, 11-2004			
FIORD 15	6.53	N 70° 25' 06.0"	W 150° 54' 22.3"	Alcap	LCMF, 3-2005			
FIORD 17	8.31	N 70° 25' 10.9"	W 150° 55' 11.7"	Alcap	LCMF, 3-2005			
JACK	23.45	N 70° 16' 55.4"	W 151° 15' 52.6"	Alcap	LCMF levels, 8-2003			
KELLY	27.36	N 70° 15' 49.4"	W 151° 29' 19.7"	Alcap	LCMF static gps, 5-11-2005			
Line 3S1	36.62	N 70° 13' 09.7"	W 151° 50' 20.1"	Alcap	Lounsbury 2001			
Line 3S2	23.37	N 70° 16' 09.7"	W 151° 52' 20.6"	Alcap	Lounsbury 2001			
Line 4BW	40.87	N 70° 11' 11.9"	W 151° 57' 43.1"	Alcap	Lounsbury 2001			
Line 2S	21.44	N 70° 15' 55.1"	W 151° 42' 07.6"	Rebar	Lounsbury 2001			
MECKEL	70.19	N 70° 12' 00.6"	W 151° 39' 57.6"	Alcap	LCMF static gps, 5-12-2005			
Mon 01	27.93	N 70° 09' 57.2"	W 150° 56' 23.8"	Alcap	LCMF 2006			
Mon 09	25.03	N 70° 14' 40.6"	W 150° 51' 29.6"	Alcap	Lounsbury 1996			
Mon 20	19.17	N 70° 16' 48.0"	W 151° 00' 41.7"	Alcap	Lounsbury 1996			
Mon 22	10.13	N 70° 19' 05.2"	W 151° 03' 21.9"	Alcap	Lounsbury 1996			
Mon 23	9.53	N 70° 20' 40.0"	W 151° 03' 40.7"	Alcap	Lounsbury 1996 (9.523 LCMF 6-26-2005)			
Mon 28	3.66	N 70° 25' 31.9"	W 151° 04' 01.2"	Alcap	Lounsbury 1996			
Mon 35	5.57	N 70° 25' 57.0"	W 150° 23' 00.4"	Alcap	Lounsbury 1996			
NAN2	13.31	N 70° 18' 14.9"	W 150° 59' 50.6"	-	LCMF, 3-2005			
NPRA 2	7.67	N 70° 20' 22.6"	W 151° 05' 41.7"	Alcap	LCMF, 3-2005			
NPRA 3	16.94	N 70° 20' 04.3"	W 151° 07' 19.9"	Alcap	LCMF, 3-2005			
PATTY	68.79	N 70° 12' 21.6"	W 151° 38' 29.1"	Alcap	LCMF static gps, 5-12-2005			
SAK-LT	10.17	N 70° 21' 49.5"	W 150° 55' 34.0"	Alcap	LCMF, 12-2004			
STM RT	10.07	N 70° 23' 37.7"	W 150° 54' 54.4"	Alcap	LCMF, 11-2004			
UBN 01	12.09	N 70° 18' 11.8"	W 151° 19' 48.6"	Rebar	LCMF static gps, 7-27-2003			
UBUSW	17.50	N 70° 14' 36.4"	W 151° 17' 51.7"	Alcap	Lounsbury 2001			