



TETRA TECH

UNDER ICE BED PHOTO SAMPLING

SUSITNA-WATANA
HYDROELECTRIC PROJECT

Date & Time: 4-3-14 - 13:30

Crew: BT AP Sheet 1 of 3

Location: DRM-230.0

Weather: Mostly Clear

Camera: FF #2, GoPro #2

GPS Unit: RDx

Comments: Photos: #414 Detail View of ice hole. #416 L side chan → R #117 centerline holes → US.
#418 Centerline holes → DS. #419 R side chan → L. #420-423 Aerial Alaska

(A)	(B)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Sample #	GPS Point #	Snow Depth (ft)	Ice Thickness (ft)	Top of Ice to Bed Distance (ft)	Flow Depth (F-E) (ft)	Frazil Ice Present?	Anchor Ice Present?	Freeboard Height (ft)	Camera Height above Bed (ft)	Video #	Comments / Bed Description
1	S1	5"	1.8	61"		Y	N	.3	2	128	
2	S2	2"	1.7	54"		Y	N	0	2	129	
3	S3	2"	1.5	59"		Y	N	-2	2	130	one flowing (O/F)
4	S4	2"	1.7	64"		Y	N	-1	2	131	O/F
5	S5	3"	1.8	58"		Y	N	0	2	132	
6	S6	4"	1.7	66"		Y	N	.5	2	133	
7	S7	3"	1.6	62"		Y	N	.1	2	134	
8	S8	2"	1.6	60"		Y	N	-2	2	135	O/F
9	S9	2"	1.6	63"		Y	N	-2	2	136	O/F
10	S10	4"	1.6	58"		Y	N	-1	2	137	O/F
11	S11	4"	1.8	67"		Y	N	.6	2	138	
12	S12	4"	1.7	66"		Y	N	.4	2	139	
13	S13	2"	1.6	63"		Y	N	0	2	140	
14	S14	2"	1.7	58"		Y	N	-1	2	141	O/F
15	S15	3"	1.5	60"		Y	N	0	2	142	

QC1

Photo Back up # 0424



TETRA TECH

UNDER ICE BED PHOTO SAMPLING

SUSITNA-WATANA
HYDROELECTRIC PROJECT

Date & Time: 4-3-14 13:30

Crew: BT, MP
Weather: Clear / Sunny

Sheet 2 of 3

Location: PRM 230.0

Camera: Te#2. Gopro#2
GPS Unit: PDX


Comments:

(A) Sample #	(B) GPS Point #	(D) Snow Depth (ft)	(E) Ice Thickness (ft)	(F) Top of Ice to Bed Distance (ft)	(G) Flow Depth (F-E) (ft)	(H) Frazil Ice Present?	(I) Anchor Ice Present?	(J) Freeboard Height (ft)	(K) Camera Height above Bed (ft)	(L) Video #	(M) Comments / Bed Description
16	S16	4"	1.8	68"		Y	N	.6	2	145	See end of video for surveying of water in hole
17	S17	3"	1.9	62"		Y	N	.3	2	146	
18	S18	2"	1.7	62"		Y	N	0	2	148	
19	S19	2"	1.7	61"		Y	N	0	2	149	
20	S20	4"	1.5	60"		Y	N	0	2	150	

QC1

Photo Back up # 0425

Date: 4-3-14
PRM 230.0

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AC 
photo area

Vegetation 70 ungrazed / 30 Decid.

