



TETRA TECH

UNDER ICE BED PHOTO SAMPLING

SUSITNA-WATANA
HYDROELECTRIC PROJECT

Date & Time: 4-2-14 12:00

Crew: BT MP

Sheet 1 of 3

Location: PRM 195.3

Weather: Sunny / clear

Camera: #27 GoPro #2

GPS Unit: PDX

Comments: Transparent to completely opaque ice. River bottom visible from surface in places.

Photos: #384 L side chan → R #386 Contracting holes → DS #387 308 R side Chan → L

#389 - 391 Aerial Views

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
(A)	(B)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
1	S1	0	3.5	70"		Y	N	.3	2	6061	
2	S2	0	3.0	74"			N	.3	2	62	
3	S3	0	2.8	75"			N	.3	2	63	
4	S4	0	3.0	76"			N	.3	2	64	
5	S5	0	3.0	77"			N	.3	2	65	
6	S6	0	3.1	76"			N	.3	2	66	
7	S7	0	3.6	62"			N	.3	2	69	Small Ice May obstruct Views
8	S8	0	3.5	67"			N	.3	2	70	
9	S9	0	2.7	74"			N	.3	2	71	
10	S10	0	2.6	75"			N	.3	2	72	Transg. Ice
11	S11	0	3.0	75"			N	.3	2	73	
12	S12	0	3.1	73"			N	.3	2	74	
13	S13	0	3.4	72"			N	.3	2	75	
14	S14	0	3.8	75"			N	.2	2	76	
15	S15	0	3.5	62"			N	.2	2	77	

QC1

Photo Back up # 0399

V1 3/2014



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Date & Time:

4-2-14 12:00

Crew:

MP BT

Sheet 2 of 3

Location:

PRM-253.7 195.3

Weather:

Sunny/clear

Camera:

H*2. Gopro #2

GPS Unit:

PDX

Comments:

(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
16	516	0	2.3	67"		Y	N	.3	2	78	
17	517	0	2.6	71"		Y	N	.3	2	79	
18	518	0	2.6	72"		Y	N	.2	2	80	
19	519	0	3.0	72"		Y	N	.3	2	81	
20	520	0	3.1	74"		Y	N	.3	2	82	
21	521	0	3.4	75"		Y	N	.3	2	85	
22	522	0	4.0	75"		Y	N	.3	2	88	

(N)

QC1

Photo Back up #

0400

Date: 4-2-14

PRM: 195.3

Sheet 3/3

QC P

Photo 0901

