

Site C Clean Energy Project

Fisheries and Aquatic Habitat Monitoring and Follow-up Program

Peace River and Site C Reservoir Water and Sediment Quality Monitoring Programs (Mon-8 and Mon-9)

Task 2b – Water Temperature

Construction Year 5 (2019)

Diversified Environmental Services

June 18, 2020

DIVERSIFIED ENVIRONMENTAL SERVICES

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BC HYDRO PEACE RIVER BASELINE TEMPERATURE MONITORING

YEAR 11 SUMMARY – January 01 to December 31, 2019

Date: June 16, 2020
Attention: Nich Burnett
BC Hydro
Vancouver, BC

Beginning in 2008, Diversified Environmental Services (DES) has maintained an array of Tidbit v2 Model #UTBI-001 temperature sensor/logger units in the Peace River as part of the BC Hydro Peace River Water Use Plan (WUP). The program has involved the monitoring of water temperature at 18 stations between the WAC Bennett Dam forebay (Williston Reservoir), and a point on the Peace River located 6.5 km downstream of the Pine River confluence. In April 2016, at the request of the Site C project, 6 temperature loggers were added at 3 additional monitoring sites in the project area. Two loggers were deployed along the left downstream bank of the lower Pine River mainstem (pineMS1 and pineMS2), 2 loggers were deployed along the left downstream bank of the lower Beatton River mainstem (beatMS1 and beatMS2), and 2 loggers were deployed on the left and right downstream banks of the Peace River, upstream of its confluence with the Pouce Coupe River (pouceUP1 and pouceUP2).

The following sections provide a summary of site descriptions and methods used to deploy, maintain, and download temperature loggers at the original WUP monitoring stations and the additional Site C monitoring stations from January 1 to December 31, 2019 (Year 11). Logger locations and details appear in Figure 1 and Table 1.

Monitoring stations are typically maintained in pairs at each general location in order to minimize the risk of data gaps in the event of logger stranding, failure, or loss. At Peace River locations upstream of major tributaries (Halfway, Moberly, Pine, and Pouce Coupe rivers), monitoring stations are

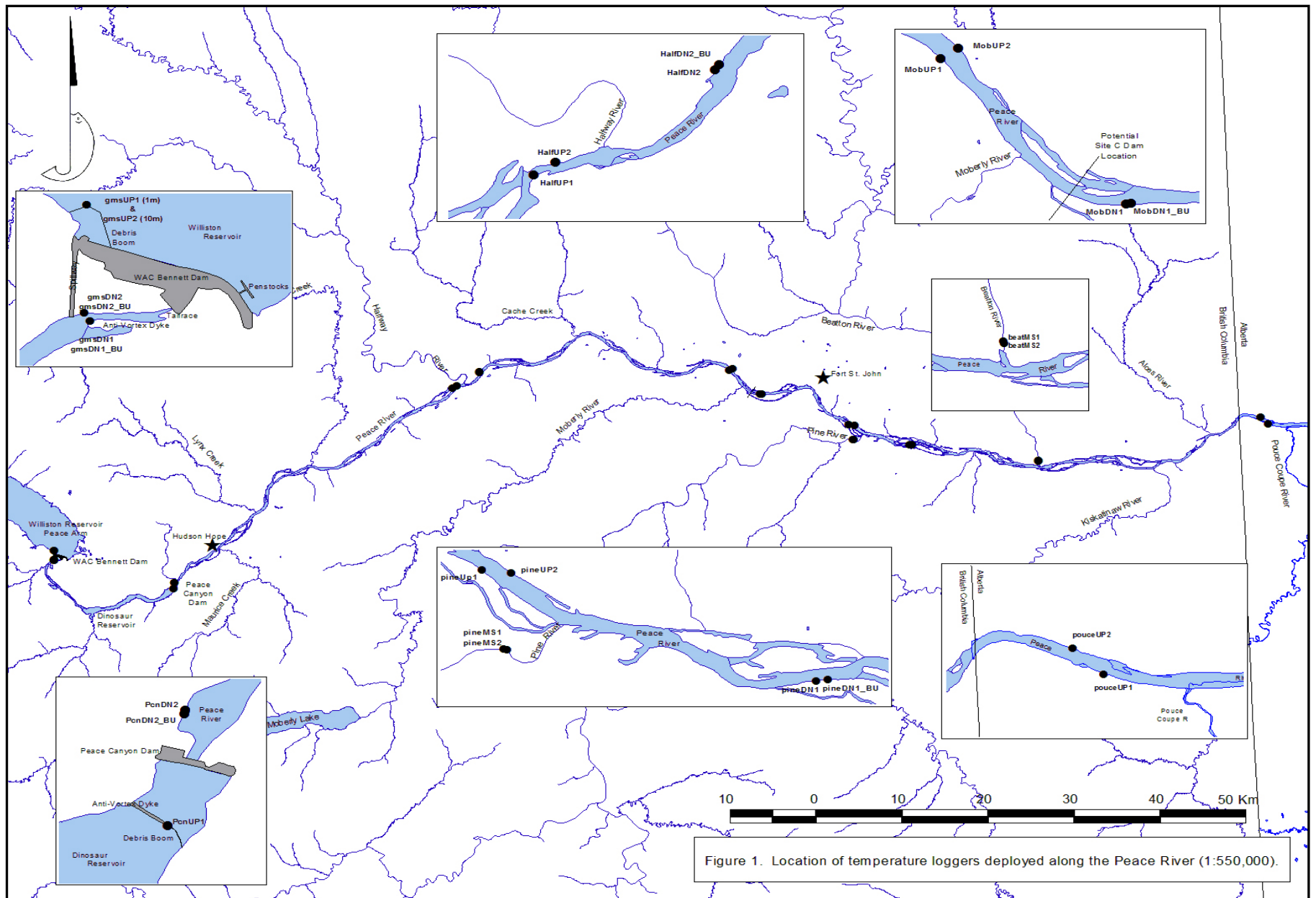


Figure 1. Location of temperature loggers deployed along the Peace River (1:550,000).

Table 1. Temperature monitoring station location information as of June 2020.

Site ID	Serial #	Location	UTM (Zone 10)		Comment
			East	North	
gmsUP1	20332187	WAC Bennett Forebay	548841	6209022	steel buoy; 1 m depth
gmsUP2	10676160	WAC Bennett Forebay	548841	6209022	steel buoy; 10 m depth
gmsDN1	20655136	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN1BU	10676155	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN2	10669739	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
gmsDN2BU	20332121	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
pcnUP1	20332186	Peace Canyon Forebay	562710	6204068	anti-vortex log boom; 1 m depth
pcnDN2	10156319	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
pcnDN2BU	10635061	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
HalfUP1	20332123	Halfway Confluence - upstream	595181	6230117	south bank; spruce tree
HalfUP2	20030829	Halfway Confluence - upstream	595559	6230543	north bank; spruce tree
HalfDN2	10669748	Halfway Confluence - downstream	598310	6232377	north bank; balsam poplar
HalfDN2BU	10156314	Halfway Confluence - downstream	598287	6232344	north bank; balsam poplar
MobUP1	10887852	Moberly Confluence - upstream	627158	6232349	south bank; alder
MobUP2	20655180	Moberly Confluence - upstream	627501	6232563	north bank; birch tree
MobDN1	10676146	Moberly Confluence - downstream	630776	6229287	south bank; alder
MobDN1BU	10676147	Moberly Confluence - downstream	630875	6229303	south bank; alder
PineUP1	10669747	Pine Confluence - upstream	641032	6225367	south bank; alder
PineUP2	20655135	Pine Confluence - upstream	641655	6225305	north bank; balsam poplar stump
PineDN1	20655185	Pine Confluence - downstream	648074	6222792	south bank; alder
PineDN1BU	10893055	Pine Confluence - downstream	648371	6222823	south bank; alder
PineMS1	10893069	Pine Mainstem - upstream of Peace	641757	6223604	north bank; steel piling
PineMS2	10635067	Pine Mainstem - upstream of Peace	641757	6223604	north bank; steel piling
BeatMS1	20322122	Beatton Mainstem - upstream of Peace	663118	6221234	east bank; birch tree
BeatMS2	20030828	Beatton Mainstem - upstream of Peace	663118	6221234	east bank; birch tree
PouceUP1	20655184	Pouce Coupe confluence - upstream	*316876	6225223	south bank; birch; *UTM Zone 11
PouceUP2	10893068	Pouce Coupe confluence - upstream	*315884	6226162	south bank; birch; *UTM Zone 11

maintained on opposing banks of the river in order to provide redundancy and confirm temperature consistency across the channel. At locations in and downstream of major tributaries, paired stations are maintained on common banks in order to provide better redundancy in tributary outflow paths prone to stranding by passing ice and debris.

Temperature loggers were programmed to record water temperature (°C) at 1 hour intervals. Loggers were housed in 38 mm x 100 mm steel nipples with threaded steel end caps, weighted with 5 kg steel anchors, and tethered to rooted trees or bedrock fragments using 3.18 mm stainless steel cable or 3.5 mm (7/32") steel chain. Tethers on the lower Beatton mainstem loggers (beatMS1 and beatMS2) were replaced with heavier 12.7 mm galvanized cable in 2017, after the 3.18 mm tethers were parted by out flowing ice in the spring and large woody debris during summer storm events.

Temperature data recorded and stored on each logger during 2019 were downloaded at approximately 3 month intervals by field transfer to a Model U-DTW-1 Hobo® waterproof optical shuttle (Onset Corp., Bourne, MA). Data from the shuttle were then downloaded to a desktop computer after each field session.

Logger sites at the WAC Bennett Dam and Peace Canyon Dam forebay and tailrace locations were accessed by vehicle, while all Peace River and tributary sites were accessed by riverboat. Conditions and observations at the time of each download event were documented in the field on hardcopy Download Information Forms and subsequently entered into digital format. *In situ* reference temperatures were recorded at the time of each field download event using a YSI® Professional Plus handheld multi-parameter instrument (Model No. E-528-ProPlus) for comparison to the corresponding hourly logger readings (i.e., within 30 minutes of reference temperature). Data files were exported as MS Office Excel and Access compatible text files using Onset® Hoboware Pro software (Ver. 3.7.16) and amalgamated into single Excel worksheets for each data logger.

Occasional stranding of loggers above the waterline during Year 11 was largely associated with ice flows originating from the break-up of the Halfway and Beatton rivers and the accumulation of debris on tether cables during tributary freshet. Stainless steel cable at some stations located in the path of tributary outflows was replaced with steel chain in late 2018 and early 2019. This measure appeared to partially alleviate data losses associated with passing debris, and additional stations were converted to steel chain in late 2019 and early 2020.

March 31, 2019 marked the end of the 10-year monitoring program originally implemented under the Peace Water Use Plan. Downloading and maintenance of monitoring stations was suspended for a 4-month period between April 1 and August 1, 2019, while a decision was made whether to extend the monitoring program and an interim maintenance contract could be put in place. Download and maintenance trips continued on August 6, 2019.

Seven stations suffered data losses due to severed tether cables in 2019. These included 3 cases of suspected tampering by unknown persons (GMS tailrace and Site C construction zone), one case of twisting off due to prolonged debris entanglement, one case of shear ice during Pine River break up, one case of steel capsule failure due to corrosion, and one of unknown cause. In all but one case (gmsD1), data for the affected periods was successfully recovered from back-up or redundant loggers.

Reference temperatures recorded during download events are presented in Appendix I along with corresponding logger temperatures and indicated error values. None of the loggers in use in 2019 exhibited a consistent linearity or zero error. Variability among reference values and corresponding logger fixes averaged 0.07°C and ranged as high as 0.4°C.

Download Information Forms completed during each field download session are provided in Appendix II. Two loggers assumed to be nearing the end of their battery lives were replaced in 2019 (gmsUP1 and pcnUP1).

A summary of temperature data collection results and related conditions and limitations are discussed in the following 8 sections, which correspond to the 8 generating station and major tributary features.

WAC Bennett Dam Forebay and Tailrace

The WAC Bennett Dam forebay temperature monitoring station is located at the GMS spillway log boom and consists of a vertical cable suspended from the northernmost log boom steel buoy. Temperature is recorded with 2 loggers, the first located at 1 m depth (gmsUP1) and the second at a depth of 10 m (gmsUP2). Both GMS forebay loggers recorded seamless water temperature data in Year 11.

The GMS tailrace monitoring sites are located on opposite banks, approximately 700 m downstream of the outflow manifolds. Logger gmsDN1 records the temperature of water flowing from the south tailrace manifold, which originates from the shallowest penstock depth. Logger gmsDN2 samples water

from the north tailrace manifold, which originates from a deeper withdrawal point. The tethered steel capsule at both stations contains a back-up logger in addition to the primary unit (gmsDN1BU and gmsDN2BU). Both loggers located in the north tailrace manifold (gmsDN2 and gmsDN2BU) collected continuous data through Year 11. The cable tethering the 2 south manifold loggers (gmsDN1 and gmsDN1BU) was found pulled to shore and cut during the February 2020 download resulting in the loss of 2019 data from October 17 to December 31.

Peace Canyon Dam Forebay and Tailrace

The data logger recording temperature at the Peace Canyon Dam forebay (pcnUP1) is attached to the anti-vortex dam log boom, located approximately 450 m upstream of the dam face. This station collected continuous data throughout 2019.

The Peace Canyon Tailrace loggers (pcnDN2 and pcnDN2BU) are located on the left downstream bank of the Peace River approximately 200 m downstream of the dam outflow manifold. Peace Canyon Tailrace logger pcnDN2 was discovered missing during the February 2020 download, due to a corroded off capsule end cap, resulting in the loss of 2019 temperature data between October 17 and December 31. However, its back-up logger pcnDN2BU recorded continuous data throughout 2019.

Halfway River Confluence

Peace River water temperature was monitored at points approximately 1 km upstream and 2.5 km downstream of the Halfway River confluence. Halfway upstream stations were maintained on opposing banks throughout Year 11 (halfUP1 and halfUP2). Both Halfway-upstream loggers collected seamless data through Year 11.

Both Halfway downstream loggers (halfDN2 and halfDN2BU) were located on the left downstream bank within the influence of Halfway River inputs. Both Halfway-downstream loggers were dislodged by out flowing ice and debris from the Halfway River during freshet and remained periodically exposed during the post-freshet suspension of maintenance activities. This resulted in intermittent data collection between March 16 and August 6, when operations resumed. Stainless steel tether cables on both loggers have now been replaced with steel chain, which appears more resistant to passing debris.

Moberly River Confluence

Peace River water temperature was monitored at points approximately 2.6 km upstream and 2.5 km downstream of the Moberly River confluence. Upstream stations were maintained on opposing banks throughout Year 11 (mobUP1 and mobUP2). During the February 2020 download session, the cable tethering logger mobUP2 was found cut and coiled on shore, resulting in a 2019 data gap from October 11 to December 31. Redundant logger mobUP1 logged continuous temperature data through 2019.

The Moberly downstream logger and downstream back-up logger are both located on the south bank of the Peace River, within the influence of outfall from the Moberly River, and immediately downstream of the footprint of the Site C dam, which is presently under construction. Both loggers recorded continuous water temperature data in 2019.

Pine River Confluence

Peace River water temperature was monitored at points approximately 2.0 km upstream and 6.5 km downstream of the Pine River confluence. During Year 11, upstream stations were maintained on opposing banks (pineUP1 and pineUP2) and both downstream loggers (pineDN1 and pineDN1BU) were located on the south river bank, within the influence of inputs from the Pine River. Upstream logger pineUP2 was lost between freshet and the resumption of maintenance activities in August 2019, resulting in the loss of data from March 19 to August 7. Its redundant counterpart, pineUP1, logged continuous data throughout 2019.

Downstream logger pineDN1 was lost due to a parted cable resulting in a 2019 data gap from October 11 to December 31. Its corresponding back-up (pineDN1BU) recorded continuous data through Year 11. Both tethers have been converted to steel chain.

Pine River Mainstem

Temperature loggers were installed in the lower Pine River in April 2016. During 2019, both loggers were located on the right downstream bank approximately 1.3 km upstream of the confluence with the Peace River. These loggers are typically not accessible during the winter months due to heavy ice cover and cannot be downloaded between October and May.

Logger pineMS1 recorded continuous data throughout 2019, while back-up logger pineMS2 was lost during the break-up of ice in the lower Pine River in April 2019. As a result, pineMS2 data from Jan 1 to May 6, 2019 are not available.

Beaton River Mainstem

Temperature loggers in the lower Beaton River (beatMS1 and beatMS2) were initially installed in April 2016. The lower Beaton River monitoring sites have proven to be particularly susceptible to dislodgement and logger loss due to the break-up of winter ice and the passing of large wood debris during summer flood events. During 2017, the 3.18 mm stainless steel tethers on both loggers were replaced with heavier 12.7 mm galvanized cable, after the tethers were parted by out flowing ice.

The lower Beaton River station is located approximately 1 km upstream of the confluence with the Peace River and is not accessible for download between October and May due to heavy ice cover.

Logger beatMS1 was dislodged and swung to shallow water during ice break up in 2019 and collected intermittent temperature data from March 31 to May 6, 2019. Back-up logger beatMS2 recorded seamless data throughout 2019.

Peace River Upstream of Pouce Coupe River

Temperature loggers in the Peace River upstream of the Pouce Coupe River confluence (pouceUP1 and pouceUP2) were installed in April 2016. The pouceUP1 and pouceUP2 stations are currently located on opposing banks, approximately 2.4 km and 3.3 km upstream of the confluence with the Pouce Coupe River, respectively.

Although back-up logger pouceUP2 collected seamless data throughout 2019, logger pouceUP1 was lost twice during the year, resulting in data gaps from January 2 to August 6 and from October 11 to December 31. This logger's tether cable was suspected to have been tampered with prior to the August 2019 resumption of maintenance activities and its replacement was lost prior to the Feb 2020 download, presumably due to sloughing of extensive shore ice.

APPENDIX I

REFERENCE TEMPERATURE VALUES

Appendix I. Reference temperature values and corresponding logger fix values recorded during download events in Year 11, January 01, 2019 to December 31, 2019.

Logger ID	Date	Fix Temp	Ref Temp	Error
gmsUP1	22-Mar-19	0.6	0.6	0.0
	6-Aug-19	15.7	15.8	-0.1
	17-Oct-19	10.4	10.5	-0.1
gmsUP2	22-Mar-19	0.6	0.6	0.1
	6-Aug-19	15.1	15.2	-0.1
	17-Oct-19	10.4	10.5	-0.1
gmsDN1	11-Jan-19	1.7	1.8	-0.1
	6-Aug-19	12.6	12.7	-0.1
	17-Oct-19	10.4	10.4	0.0
gmsDN1_BU	11-Jan-19	1.7	1.9	-0.2
	6-Aug-19	12.6	12.8	-0.2
	17-Oct-19	10.4	10.5	-0.1
gmsDN2	11-Jan-19	2.5	2.5	0.0
	6-Aug-19	7.7	7.8	-0.1
	17-Oct-19	9.9	9.9	0.0
gmsDN2_BU	11-Jan-19	2.5	2.7	-0.2
	6-Aug-19	7.7	7.9	-0.2
	17-Oct-19	9.9	10.0	-0.1
pcnUP1	22-Mar-19	1.0	1.2	-0.2
	6-Aug-19	15.3	15.4	-0.1
	17-Oct-19	9.8	9.9	-0.1
pcnDN2	11-Jan-19	2.1	2.2	-0.1
	6-Aug-19	12.1	12.1	0.0
	17-Oct-19	9.6	9.9	-0.3
pcnDN2_BU	11-Jan-19	2.1	2.2	-0.1
	6-Aug-19	12.1	12.2	-0.1
	17-Oct-19	9.6	10.0	-0.4
halfUP1	3-Jan-19	1.7	1.8	-0.1
	6-Aug-19	11.9	12.1	-0.2
	16-Oct-19	9.9	10.0	-0.1
halfUP2	3-Jan-19	1.7	1.9	0.3
	6-Aug-19	11.9	12.1	0.0
	16-Oct-19	9.9	10.0	0.2

Appendix II.cont Reference temperature values and corresponding logger fix values recorded during download events in Year 11, January 01, 2019 to December 31, 2019.

Logger ID	Date	Logger Temp	Reference Temp	Error
halfDN2	3-Jan-19	0.8	1.1	-0.3
	6-Aug-19	15.6	15.5	0.1
	16-Oct-19	6.3	6.6	-0.3
halfDN2_BU	3-Jan-19	0.8	1.1	-0.3
	6-Aug-19	15.6	15.8	-0.2
	16-Oct-19	6.3	6.5	-0.2
mobUP1	19-Mar-19	1.2	1.3	-0.1
	7-Aug-19	12.9	13.1	-0.2
	11-Oct-19	9.2	9.4	-0.2
mobUP2	19-Mar-19	1.2	1.1	0.1
	7-Aug-19	13	13.2	-0.2
	11-Oct-19	8.7	8.8	-0.1
mobDN1	19-Mar-19	1.2	1.2	0.0
	7-Aug-19	13.1	13.0	0.1
	11-Oct-19	9.0	9.1	-0.1
mobDN1_BU	19-Mar-19	1.2	1.4	-0.2
	7-Aug-19	13.1	13.3	-0.2
	11-Oct-19	9.0	9.0	0.0
pineUP1	19-Mar-19	1.9	1.8	0.1
	7-Aug-19	14.0	13.6	0.4
	11-Oct-19	8.8	9.0	-0.2
pineUP2	19-Mar-19	1.5	1.5	0.0
	7-Aug-19	13.1	13.4	-0.3
	11-Oct-19	8.8	9.0	-0.2
pineDN1	19-Mar-19	1.4	1.4	0.0
	7-Aug-19	15.9	15.9	0.0
	11-Oct-19	5.1	5.4	-0.3
pineDN1_BU	19-Mar-19	1.4	1.4	0.0
	7-Aug-19	15.9	16.1	-0.1
	11-Oct-19	5.1	5.4	-0.3
pineMS1	6-May-19	6.6	6.6	0.0
	7-Aug-19	16.8	16.8	0.0
	11-Oct-19	2.1	2.2	-0.1

Appendix III.cont Reference temperature values and corresponding logger fix values recorded during download events in Year 11, January 01, 2019 to December 31, 2019.

Logger ID	Date	Logger Temp	Reference Temp	Error
pineMS2	6-May-19	6.6	6.7	-0.1
	7-Aug-19	16.8	16.9	-0.1
	11-Oct-19	2.1	2.2	-0.1
beatMS1	6-May-19	7.5	7.6	-0.1
	7-Aug-19	19.3	19.1	0.2
	11-Oct-19	1.9	1.5	0.4
beatMS2	6-May-19	7.5	7.6	-0.1
	7-Aug-19	19.3	19.1	0.2
	11-Oct-19	1.9	1.6	0.3
pouceUP1	2-Jan-19	1.9	1.9	0.0
	7-Aug-19	14.1	14.3	-0.2
	11-Oct-19	7.8	7.9	-0.1
pouceUP2	2-Jan-19	2.0	2.3	0.1
	7-Aug-19	14.1	14.1	0.1
	11-Oct-19	8.2	8.2	0.0

APPENDIX II

DOWNLOAD INFORMATION FORMS

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM

SITE ID	gmsUP1		LOCATION	GMS Forebay		BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676155		UTM	548841	6209022
DOWNLOAD DATE	22	Mar	2019	DOWNLOAD TIME	13:08		CREW	BC DC
TEST RECORDER TYPE	YSI		WATER TEMP	0.6	AIR TEMP	8	ICE CONDITIONS	Res. Frozen

LOGGER CONDITIONS

WATER DEPTH	100	cm	DISLODGED	no	REASON			
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE steel buoy

COMMENTS

RPL#19
 Low battery; Logger replaced with RPL#43 (SN 20332187)
 Download OK

SITE ID	gmsUP2		LOCATION	GMS Forebay		BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676180		UTM	548841	6209022
DOWNLOAD DATE	22	Mar	2019	DOWNLOAD TIME	13:11		CREW	BC DC
TEST RECORDER TYPE	YSI		WATER TEMP	0.6	AIR TEMP	8	ICE CONDITIONS	Res. Frozen

LOGGER CONDITIONS

WATER DEPTH	1000	cm	DISLODGED	no	REASON			
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE steel buoy

COMMENTS

RPL#20
 Download OK

SITE ID		LOCATION		BANK			
LOGGER TYPE		LOGGER SERIAL #		UTM			
DOWNLOAD DATE		DOWNLOAD TIME		CREW			
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS	

LOGGER CONDITIONS

WATER DEPTH		cm	DISLODGED		REASON			
BURIED			FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE

COMMENTS

SITE ID		LOCATION		BANK			
LOGGER TYPE		LOGGER SERIAL #		UTM			
DOWNLOAD DATE		DOWNLOAD TIME		CREW			
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS	

LOGGER CONDITIONS

WATER DEPTH		cm	DISLODGED		REASON			
BURIED			FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE

COMMENTS

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM

SITE ID	pcnUP1	LOCATION	PCN Forebay		BANK	north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10635067		UTM	562710	6204068	
DOWNLOAD DATE	22	Mar	2019	DOWNLOAD TIME	11:44		CREW	BC DC
TEST RECORDER TYPE	YSI	WATER TEMP	1.0	AIR TEMP	8.0	ICE CONDITIONS	W. side of boom	

LOGGER CONDITIONS

WATER DEPTH	100	cm	DISLODGED	no	REASON			
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	log boom	

COMMENTS

fail light indicated but download OK
 all stainless steel cable ok
 Rpl #10, SN 10635067
 logger replaced with RPL#42 (SN 2033186)

SITE ID		LOCATION		BANK			
LOGGER TYPE		LOGGER SERIAL #		UTM			
DOWNLOAD DATE				DOWNLOAD TIME			
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS	

LOGGER CONDITIONS

WATER DEPTH		cm	DISLODGED		REASON			
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE		

COMMENTS

SITE ID		LOCATION		BANK			
LOGGER TYPE		LOGGER SERIAL #		UTM			
DOWNLOAD DATE				DOWNLOAD TIME			
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS	

LOGGER CONDITIONS

WATER DEPTH		cm	DISLODGED		REASON			
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE		

COMMENTS

SITE ID		LOCATION		BANK			
LOGGER TYPE		LOGGER SERIAL #		UTM			
DOWNLOAD DATE				DOWNLOAD TIME			
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS	

LOGGER CONDITIONS

WATER DEPTH		cm	DISLODGED		REASON			
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE		

COMMENTS

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	mobUP2		LOCATION	u/s of Moberly River				BANK	north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669754				UTM	627501	6232563	
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	12:21				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.2	AIR TEMP	6.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no		REASON					
BURIED	yes	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	birch			
COMMENTS											
RPL#16, SN 10669754											
download OK											
SITE ID	mobUP1		LOCATION	u/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852				UTM	627158	6232349	
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	12:39				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.2	AIR TEMP	6.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLODGED	yes		REASON	ice				
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS											
RPL# 21, SN10887852											
stainless cable ok											
download ok											
swung to shore but wet											
SITE ID	mobDN1		LOCATION	d/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146				UTM	630776	6229287	
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	12:59				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.2	AIR TEMP	6.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLODGED	yes		REASON	ice				
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS											
RPL#17, S/N10676146											
download OK											
partially swung to shore but wet											
replaced cable with chain											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147				UTM	630875	6229275	
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	13:10				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.2	AIR TEMP	6.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED	yes		REASON	ice				
BURIED	no	FUNCTIONAL	dry		IF DRY, HEIGHT ABOVE WATER	40	cm	TETHER TYPE	alder		
COMMENTS											
download OK											
Rpl # 18, S/N10676147											
swung to shore and dry											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
SITE ID	pineUP2	LOCATION	u/s of Pine River			BANK		north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	641653	6225304				
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	13:47			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.5	AIR TEMP	6.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	180	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop				
COMMENTS												
download OK												
Stainless steel cable OK												
Logger "halfUP1R" SN 9767573 replaced with RPL#40 S/N20332129												
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641034	6225372				
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	13:52			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.9	AIR TEMP	6.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	80	cm	DISLODGED	yes	REASON	ice						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
download OK												
partially swung to shore but wet												
Rpl # 14, SN 10669747												
Stainless steel cable OK												
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893055			UTM	648362	6222823				
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	14:17			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.4	AIR TEMP	6.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	90	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
RPL# 25												
download ok												
stainless steel cable ok												
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156319			UTM	648101	6222802				
DOWNLOAD DATE	19	Mar	2019	DOWNLOAD TIME	14:17			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.4	AIR TEMP	6.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	80	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
Stainless steel cable OK												
Logger RPL# 1, 10156319 replaced with RPL#41, S/N20332124												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	pineMS1	LOCATION	Pine River mainstem			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893069			UTM	641900	6223491			
DOWNLOAD DATE	6	May	2019	DOWNLOAD TIME	14:56	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	6.6	AIR TEMP	10.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLOGGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling			
COMMENTS											
Replac#28 download OK											
SITE ID	pineMS2	LOCATION	Pine River mainstem			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20097150			UTM	641677	6223590			
DOWNLOAD DATE	6	May	2019	DOWNLOAD TIME	n/a	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	6.6	AIR TEMP	10.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	n/a	cm	DISLOGGED	yes	REASON	ice					
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling			
COMMENTS											
Cable parted and logger lost Probable cause ice breakup Replac#35 lost - Replaced with Replac#10 SN 10635067											
SITE ID	beatMS1	LOCATION	Beatton R mainstem			BANK	east				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20332122			UTM	663101	6220759			
DOWNLOAD DATE	6	May	2019	DOWNLOAD TIME	16:06	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	7.5	AIR TEMP	10.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	0	cm	DISLOGGED	yes	REASON	ice					
BURIED	no	FUNCTIONAL	dry	IF DRY, HEIGHT ABOVE WATER	5	cm	TETHER TYPE	birch			
COMMENTS											
sw ung to shore by ice during break up; logger dry replac#36 Download OK											
SITE ID	beatMS2	LOCATION	Beatton R mainstem			BANK	east				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030828			UTM	663121	6221232			
DOWNLOAD DATE	6	May	2019	DOWNLOAD TIME	16:11	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	7.5	AIR TEMP	10.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLOGGED	yes	REASON	ice					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch			
COMMENTS											
Partially sw ung to shore by ice during break up; still functional Replac#32 DownloadOK											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	gmsUP1		LOCATION	GMS Forebay			BANK				
LOGGER TYPE	Tidbit		LOGGER SERIAL #	20332187			UTM	548841	6209022		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	11:49			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	15.7	AIR TEMP	14	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no			REASON				
BURIED	no		FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	steel buoy	
COMMENTS											
Down load OK											
Stainless steel cable OK											
Replac#43											
SITE ID	gmsUP2		LOCATION	GMS Forebay			BANK				
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676160			UTM	548841	6209022		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	11:52			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	15.1	AIR TEMP	14	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	10	m	DISLODGED	no			REASON				
BURIED	no		FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	steel buoy	
COMMENTS											
Down load OK											
Stainless steel cable OK											
Replac#20											
SITE ID	gmsDN2		LOCATION	GMS Tailrace RDB			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669739			UTM	548828	6207836		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	10:58			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	7.7	AIR TEMP	14	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no			REASON				
BURIED	no		FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	rock	
COMMENTS											
Primary Logger - Replac#11, SN 10669739											
Back-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 down loaded @ 10:57											
both down loads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
SITE ID	gmsDN1		LOCATION	GMS Tailrace LDB			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635063			UTM	548881	6207761		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	11:15			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	12.6	AIR TEMP	14	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no			REASON				
BURIED	no		FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	rock	
COMMENTS											
Primary Logger - Replac#7, SN 10635063											
Back-up logger gmsDN1BU in same capsule; Replac#38, SN 20332152 down loaded @ 11:15											
both down loads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
SITE ID	pcnUP1		LOCATION	PCN Forebay				BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	20332186				UTM	562684	6204075		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	12:51				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	15.3	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	100	cm	DISLODGED	no		REASON						
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	log boom				
COMMENTS												
download OK												
stainless steel cable OK												
Replac#42												
SITE ID	pcnDN2		LOCATION	PCN Tailrace				BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10156317				UTM	562803	6204854		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	13:05				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	12.1	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	150	cm	DISLODGED	no		REASON						
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	rock				
COMMENTS												
download OK												
stainless steel cable OK												
Replac#2												
SITE ID	pcnDN2_BU		LOCATION	PCN Tailrace				BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635061				UTM	562803	6204854		
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	13:13				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	12.1	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	100	cm	DISLODGED	no		REASON						
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	rock				
COMMENTS												
download OK												
stainless steel cable ok												
Anchored to same rock as pcnDN2												
Replac#9												
SITE ID			LOCATION					BANK				
LOGGER TYPE			LOGGER SERIAL #					UTM				
DOWNLOAD DATE			DOWNLOAD TIME					CREW				
TEST RECORDER TYPE			WATER TEMP			AIR TEMP			ICE CONDITIONS			
LOGGER CONDITIONS												
WATER DEPTH			cm	DISLODGED			REASON					
BURIED			FUNCTIONAL			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE				
COMMENTS												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	halfUP2	LOCATION	u/s of Halfway River			BANK			north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030829			UTM	595559	6230543			
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	14:24		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	11.9	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED		yes	REASON	ice	debris			
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	80	cm	TETHER TYPE	spruce		
COMMENTS											
logger swung to shore by spring ice and debris; high and dry											
download OK											
Replac#33											
stainless steel cable OK											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK			south		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	26332123			UTM	595181	6230117			
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	14:32		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	11.9	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED		no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	spruce tree		
COMMENTS											
download OK											
Replac#39											
stainless steel cable OK											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK			north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598310	6232377			
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	14:56		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	15.6	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED		yes	REASON	ice	debris			
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	balsam pop		
COMMENTS											
logger swung to shore by spring ice and debris; high and dry											
download OK											
Replac#15											
stainless steel cable OK											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK			north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598287	6232344			
DOWNLOAD DATE	6	Aug	2019	DOWNLOAD TIME	14:48		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	15.6	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLODGED		yes	REASON	ice	debris			
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	balsam pop		
COMMENTS											
logger partially swung to shore by spring ice and debris; still functional											
download OK											
Logger file name: halfDN2BU											
tether chain OK											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	mobUP2		LOCATION	u/s of Moberly River				BANK	north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669754				UTM	627501	6232563	
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	13:21				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	13.0	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no		REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	Birch
COMMENTS											
download OK											
Replac#16											
stainless steel cable OK											
SITE ID	mobUP1		LOCATION	u/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852				UTM	627158	6232349	
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	13:29				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	12.9	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no		REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder
COMMENTS											
download OK											
Replac#21											
stainless steel cable OK											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147				UTM	630875	6229303	
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	12:39				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	13.1	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	40	cm	DISLODGED	no		REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder
COMMENTS											
download OK											
Replac#18											
stainless steel cable OK											
water level very low											
SITE ID	mobDN1		LOCATION	d/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146				UTM	630776	6229287	
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	13:08				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	13.1	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	40	cm	DISLODGED	no		REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder
COMMENTS											
download OK											
Replac#17											
steel chain OK											
water level very low											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641032	6225367		
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	14:01		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	14.0	AIR TEMP	16.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#14										
Stainless steel cable OK										
SITE ID	pineUP2	LOCATION	u/s of Pine River			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20332129			UTM	641655	6225305		
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	-		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	13.1	AIR TEMP	16.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	-	cm	DISLODGED	yes	REASON	debris				
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	poplar stump			
COMMENTS										
Logger lost; cable twisted off and parted										
Stainless steel cable replaced										
Lost logger Replac#40 (SN 20332129) replaced with Replac#46 (SN 20655135)										
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20332124			UTM	648074	6222792		
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	14:50		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	15.9	AIR TEMP	18.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#41										
Stainless steel cable OK										
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893055			UTM	648371	6222823		
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME	14:59		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	15.9	AIR TEMP	18.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	30	cm	DISLODGED	yes	REASON	tampered				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
chain pulled to shallow water by persons unknown but still functional										
download OK										
Replac#25										
Steel chain OK										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	PineMS1		LOCATION			Pine River mainstem			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10893069			UTM	641757	6223604
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME			14:30			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	16.8	AIR TEMP	18.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	steel piling	
COMMENTS											
dow nload OK											
Replac#28											
stainless steel cable OK											
SITE ID	PineMS2		LOCATION			Pine River mainstem			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10635067			UTM	641757	6223604
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME			14:30			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	16.8	AIR TEMP	18.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	steel piling	
COMMENTS											
dow nload OK											
Replac#10											
stainless steel cable OK											
SITE ID	beatMS1		LOCATION			Beatton R mainstem			BANK	east	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			20322122			UTM	663118	6221234
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME			15:38			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	19.3	AIR TEMP	20.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	80	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	birch	
COMMENTS											
dow nload OK											
Replac#36											
SITE ID	beatMS2		LOCATION			Beatton R mainstem			BANK	east	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			20030828			UTM	663118	6221234
DOWNLOAD DATE	7	Aug	2019	DOWNLOAD TIME			15:35			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	19.3	AIR TEMP	20.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	80	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	birch	
COMMENTS											
dow nload OK											
Replac#32											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM															
SITE ID		pouceUP1		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		south	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10635062				UTM		11 316876 6225223	
DOWNLOAD DATE		7 Aug 2019		DOWNLOAD TIME				-				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		14.1		AIR TEMP		14.0		ICE CONDITIONS		none	
LOGGER CONDITIONS															
WATER DEPTH		-		cm		DISLODGED		yes		REASON		tamped			
BURIED		no		FUNCTIONAL				IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE		birch	
COMMENTS															
Logger missing; cable appears to have been cut; not stretced out d/s as though pulled by debris															
Lost logger Replac#6 (SN 10635062) replaced w ith Repac#45 SN 20655134															
SITE ID		pouceUP2		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		north	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10893068				UTM		11 315884 6226162	
DOWNLOAD DATE		7 Aug 2019		DOWNLOAD TIME				9:52				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		14.1		AIR TEMP		14.0		ICE CONDITIONS		none	
LOGGER CONDITIONS															
WATER DEPTH		150		cm		DISLODGED		no		REASON					
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE		birch	
COMMENTS															
dow nload OK															
Replac#27															
Repalced old galvanized cable segment w ith all stainless steel															
SITE ID		LOCATION				BANK									
LOGGER TYPE		LOGGER SERIAL #				UTM									
DOWNLOAD DATE		DOWNLOAD TIME				CREW									
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS									
LOGGER CONDITIONS															
WATER DEPTH				cm		DISLODGED				REASON					
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE			
COMMENTS															
SITE ID		LOCATION				BANK									
LOGGER TYPE		LOGGER SERIAL #				UTM									
DOWNLOAD DATE		DOWNLOAD TIME				CREW									
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS									
LOGGER CONDITIONS															
WATER DEPTH				cm		DISLODGED				REASON					
BURIED				FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE			
COMMENTS															

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	gmsUP1		LOCATION		GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #		20332187			UTM	548841	6209022
DOWNLOAD DATE	17	Oct	2019	DOWNLOAD TIME	11:38			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	8	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	steel buoy
COMMENTS										
Down load OK										
Stainless steel cable OK										
Replac#43										
SITE ID	gmsUP2		LOCATION		GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #		10676160			UTM	548841	6209022
DOWNLOAD DATE	17	Oct	2019	DOWNLOAD TIME	11:41			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	8	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	10	m	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	steel buoy
COMMENTS										
Down load OK										
Stainless steel cable OK										
Replac#20										
SITE ID	gmsDN2		LOCATION		GMS Tailrace RDB			BANK		north
LOGGER TYPE	Tidbit		LOGGER SERIAL #		10669739			UTM	548828	6207836
DOWNLOAD DATE	17	Oct	2019	DOWNLOAD TIME	10:42			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	9.9	AIR TEMP	8	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	rock
COMMENTS										
Primary Logger - Replac#11, SN 10669739										
Back-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 down loaded @ 10:43										
both down loads OK										
cable OK (stainless steel cable section attached to galvanized cable around rock)										
SITE ID	gmsDN1		LOCATION		GMS Tailrace LDB			BANK	south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #		10635063			UTM	548881	6207761
DOWNLOAD DATE	17	Oct	2019	DOWNLOAD TIME	10:58			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	8	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	rock
COMMENTS										
Primary Logger - Replac#7, SN 10635063										
Back-up logger gmsDN1BU in same capsule; Replac#38, SN 20332152 down loaded @ 10:58										
both down loads OK										
cable ok (stainless steel cable section attached to galvanized cable around rock)										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM															
SITE ID		pcnUP1		LOCATION				PCN Forebay		BANK		north			
LOGGER TYPE		Tidbit		LOGGER SERIAL #				20332186		UTM		562684 6204075			
DOWNLOAD DATE		17 Oct 2019		DOWNLOAD TIME				9:27		CREW		BC TE			
TEST RECORDER TYPE		YSI		WATER TEMP		9.8		AIR TEMP		1.0		ICE CONDITIONS		none	
LOGGER CONDITIONS															
WATER DEPTH		100 cm		DISLODGED		no		REASON							
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE		log boom	
COMMENTS															
download OK															
stainless steel cable OK															
Replac#42															
SITE ID		pcnDN2		LOCATION				PCN Tailrace		BANK		north			
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10156317		UTM		562803 6204854			
DOWNLOAD DATE		17 Oct 2019		DOWNLOAD TIME				9:44		CREW		BC TE			
TEST RECORDER TYPE		YSI		WATER TEMP		9.6		AIR TEMP		2.0		ICE CONDITIONS		none	
LOGGER CONDITIONS															
WATER DEPTH		200 cm		DISLODGED		no		REASON							
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE		rock	
COMMENTS															
download OK															
stainless steel cable OK															
Replac#2															
SITE ID		pcnDN2_BU		LOCATION				PCN Tailrace		BANK		north			
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10635061		UTM		562803 6204854			
DOWNLOAD DATE		17 Oct 2019		DOWNLOAD TIME				9:45		CREW		BC TE			
TEST RECORDER TYPE		YSI		WATER TEMP		9.6		AIR TEMP		2.0		ICE CONDITIONS		none	
LOGGER CONDITIONS															
WATER DEPTH		200 cm		DISLODGED		no		REASON							
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE		rock	
COMMENTS															
download OK															
stainless steel cable ok															
Anchored to same rock as pcnDN2															
Replac#9															
SITE ID		LOCATION				BANK									
LOGGER TYPE		LOGGER SERIAL #				UTM									
DOWNLOAD DATE		DOWNLOAD TIME				CREW									
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS									
LOGGER CONDITIONS															
WATER DEPTH		cm		DISLODGED				REASON							
BURIED				FUNCTIONAL				IF DRY, HEIGHT ABOVE WATER		cm		TETHER TYPE			
COMMENTS															

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	halfUP2	LOCATION	u/s of Halfway River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030829			UTM	595559	6230543			
DOWNLOAD DATE	16	Oct	2019	DOWNLOAD TIME	13:02		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	9.9	AIR TEMP	8.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	80	cm	DISLODGED	no	REASON	tapered					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce				
COMMENTS											
logger pulled to shore, cable coiled on shore; wet today but likely intermittently exposed											
download OK											
Replac#33											
stainless steel cable OK											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	26332123			UTM	595181	6230117			
DOWNLOAD DATE	16	Oct	2019	DOWNLOAD TIME	13:27		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	9.9	AIR TEMP	8.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	200	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce tree				
COMMENTS											
download OK											
Replac#39											
stainless steel cable OK											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598310	6232377			
DOWNLOAD DATE	16	Oct	2019	DOWNLOAD TIME	13:53		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	6.3	AIR TEMP	8.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	80	cm	DISLODGED	yes	REASON			debris			
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop				
COMMENTS											
logger partially swung to shore by debris; wet today but likely intermittently exposed											
download OK											
Replac#15											
stainless steel cable OK											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598287	6232344			
DOWNLOAD DATE	16	Oct	2019	DOWNLOAD TIME	14:05		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	6.3	AIR TEMP	8.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	120	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop				
COMMENTS											
logger partially swung to shore by debris; still functional											
download OK											
Logger file name: halfDN2BU											
tether chain OK											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	mobUP2		LOCATION	u/s of Moberly River			BANK	north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669754			UTM	627501	6232563	
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	11:28			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	8.7	AIR TEMP	4.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	Birch			
COMMENTS										
download OK										
Replac#16										
stainless steel cable OK										
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349	
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	11:41			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	9.2	AIR TEMP	4.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	150	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#21										
stainless steel cable OK										
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229303	
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	11:12			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	9.0	AIR TEMP	4.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#18										
stainless steel cable OK										
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146			UTM	630776	6229287	
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	11:02			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	9.0	AIR TEMP	4.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#17										
steel chain OK										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641032	6225367		
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	10:32		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	8.8	AIR TEMP	2.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	150	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#14										
Stainless steel cable OK										
SITE ID	pineUP2	LOCATION	u/s of Pine River			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20655135			UTM	641655	6225305		
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	10:22		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	8.8	AIR TEMP	2.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	yes	REASON	tapered				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	poplar stump			
COMMENTS										
Logger partially pulled to shore by persons unknown; cable coiled on shore										
download OK										
Replac#46										
Stainless steel cable OK										
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20332124			UTM	648074	6222792		
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	12:43		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	5.1	AIR TEMP	4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	120	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#41										
Stainless steel cable OK										
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893055			UTM	648371	6222823		
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	12:53		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	5.1	AIR TEMP	4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	150	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
download OK										
Replac#25										
Steel chain OK										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
SITE ID	pineMS1	LOCATION	Pine River mainstem			BANK		north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893069			UTM	641757	6223604				
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	10:06	CREW	BC TE					
TEST RECORDER TYPE	YSI	WATER TEMP	2.1	AIR TEMP	0.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH	150	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling				
COMMENTS												
dow nload OK												
Replac#28												
stainless steel cable OK												
SITE ID	pineMS2	LOCATION	Pine River mainstem			BANK		north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10635067			UTM	641757	6223604				
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	10:06	CREW	BC TE					
TEST RECORDER TYPE	YSI	WATER TEMP	2.1	AIR TEMP	0.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH	150	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling				
COMMENTS												
dow nload OK												
Replac#10												
stainless steel cable OK												
SITE ID	beatMS1	LOCATION	Beatton R mainstem			BANK	east					
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20322122			UTM	663118	6221234				
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	13:28	CREW	BC TE					
TEST RECORDER TYPE	YSI	WATER TEMP	1.9	AIR TEMP	6.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH	90	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch				
COMMENTS												
dow nload OK												
Replac#36												
SITE ID	beatMS2	LOCATION	Beatton R mainstem			BANK	east					
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030828			UTM	663118	6221234				
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	13:27	CREW	BC TE					
TEST RECORDER TYPE	YSI	WATER TEMP	1.9	AIR TEMP	6.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH	90	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch				
COMMENTS												
dow nload OK												
Replac#32												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	pouceUP1		LOCATION	Peace R mainstem u/s of Pouce Coupe R			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	20655134			UTM	11	316876	6225223
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	16:23			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	7.8	AIR TEMP	8.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	150	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	birch			
COMMENTS										
download OK										
Replac#45										
stainless steel cableOK										
SITE ID	pouceUP2		LOCATION	Peace R mainstem u/s of Pouce Coupe R			BANK	north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068			UTM	11	315884	6226162
DOWNLOAD DATE	11	Oct	2019	DOWNLOAD TIME	16:33			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	8.2	AIR TEMP	8.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	birch			
COMMENTS										
download OK										
Replac#27										
stainless steel cableOK										
SITE ID			LOCATION				BANK			
LOGGER TYPE			LOGGER SERIAL #				UTM			
DOWNLOAD DATE				DOWNLOAD TIME				CREW		
TEST RECORDER TYPE			WATER TEMP		AIR TEMP		ICE CONDITIONS			
LOGGER CONDITIONS										
WATER DEPTH		cm	DISLODGED		REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE				
COMMENTS										
SITE ID			LOCATION				BANK			
LOGGER TYPE			LOGGER SERIAL #				UTM			
DOWNLOAD DATE				DOWNLOAD TIME				CREW		
TEST RECORDER TYPE			WATER TEMP		AIR TEMP		ICE CONDITIONS			
LOGGER CONDITIONS										
WATER DEPTH		cm	DISLODGED		REASON					
BURIED		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE				
COMMENTS										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	gmsUP1		LOCATION		GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #		20332187			UTM	548841	6209022
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME	13:28			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	0.0	AIR TEMP	-3		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	steel buoy
COMMENTS										
Download OK										
Stainless steel cable OK										
Replac#43										
SITE ID	gmsUP2		LOCATION		GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #		10676160			UTM	548841	6209022
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME	13:24			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	0.6	AIR TEMP	-3		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	10	m	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	steel buoy
COMMENTS										
Download OK										
Stainless steel cable OK										
Replac#20										
SITE ID	gmsDN2		LOCATION		GMS Tailrace RDB			BANK		north
LOGGER TYPE	Tidbit		LOGGER SERIAL #		10669739			UTM	548828	6207836
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME	12:05			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.0	AIR TEMP	-3		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	150	cm	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	rock
COMMENTS										
Primary Logger - Replac#11, SN 10669739										
Back-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloaded @ 12:04										
both downloads OK										
cable OK (stainless steel cable section attached to galvanized cable around rock)										
SITE ID	gmsDN1		LOCATION		GMS Tailrace LDB			BANK	south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #		10635063			UTM	548881	6207761
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME	12:31			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	0.6	AIR TEMP	-3		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	-	cm	DISLODGED		yes	REASON	tapered			
BURIED			FUNCTIONAL	no	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	rock
COMMENTS										
cable pulled to shore and cut; both loggers lost										
Lost primary logger Replac#7 (SN 10635063) replaced with Replac#47 (SN 20655136)										
Lost backup logger Replac#38 (SN 20332152) replaced with Replac#19 (SN 10676155)										
Back-up logger gmsDN1BU in same capsule; Replac#38, SN 20332152 downloaded @ 10:58										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	pcnUP1		LOCATION			PCN Forebay			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			20332186			UTM	562684	6204075
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME			14:38			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	0.9	AIR TEMP	6.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	log boom	
COMMENTS											
download OK											
stainless steel cable OK											
Replac#42											
SITE ID	pcnDN2		LOCATION			PCN Tailrace			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10156317			UTM	562803	6204854
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME			-			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	0.7	AIR TEMP	6.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED		yes	REASON			corrosion		
BURIED	no		FUNCTIONAL	no	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	rock	
COMMENTS											
logger lost - end cap corroded off steel capsule											
logger Replac#2 (SN 10156317) replaced with Replac#1 (SN10156319); launched @ 16:00											
stainless steel cable OK											
SITE ID	pcnDN2_BU		LOCATION			PCN Tailrace			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10635061			UTM	562803	6204854
DOWNLOAD DATE	19	Feb	2020	DOWNLOAD TIME			9:45			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	0.7	AIR TEMP	6.0	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	rock	
COMMENTS											
download OK											
stainless steel cable ok											
Anchored to same rock as pcnDN2											
Replac#9											
SITE ID	LOCATION			BANK							
LOGGER TYPE	LOGGER SERIAL #			UTM							
DOWNLOAD DATE	DOWNLOAD TIME			CREW							
TEST RECORDER TYPE	WATER TEMP			AIR TEMP			ICE CONDITIONS				
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED		REASON						
BURIED			FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE		
COMMENTS											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	halfUP2	LOCATION	u/s of Halfway River			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030829			UTM	595559	6230543		
DOWNLOAD DATE	28	Feb	2020	DOWNLOAD TIME	13:08			CREW	BC TE	
TEST RECORDER TYPE	YSI	WATER TEMP	1.0	AIR TEMP	4.0		ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	140	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce			
COMMENTS										
download OK										
Replac#33										
stainless steel cable OK										
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	26332123			UTM	595181	6230117		
DOWNLOAD DATE	28	Feb	2020	DOWNLOAD TIME	13:19			CREW	BC TE	
TEST RECORDER TYPE	YSI	WATER TEMP	0.9	AIR TEMP	4.0		ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce tree			
COMMENTS										
download OK										
Replac#39										
stainless steel cable OK										
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598310	6232377		
DOWNLOAD DATE	28	Feb	2020	DOWNLOAD TIME	13:50			CREW	BC TE	
TEST RECORDER TYPE	YSI	WATER TEMP	0.9	AIR TEMP	4.0		ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	40	cm	DISLODGED	yes	REASON	tapered				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop			
COMMENTS										
logger pulled to shore by persons unknown and left in shallow water; wet today but likely intermittently exposed										
download OK										
Replac#15										
stainless steel cable OK										
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598287	6232344		
DOWNLOAD DATE	28	Feb	2020	DOWNLOAD TIME	13:39			CREW	BC TE	
TEST RECORDER TYPE	YSI	WATER TEMP	0.9	AIR TEMP	4.0		ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	80	cm	DISLODGED	yes	REASON	debris				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop			
COMMENTS										
logger partially swung to shore by debris; still functional										
download OK										
Logger file ID: halfDN2BU										
tether chain OK										

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	mobUP2		LOCATION	u/s of Moberly River			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669754			UTM	627501	6232563		
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	-			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	1.0	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH			cm	DISLODGED	yes		REASON	tampered			
BURIED			FUNCTIONAL	no		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	Birch		
COMMENTS											
Cable pulled to shore and cut - logger and capsule gone lost logger Replac#16 (SN 10669754) replaced with Replac#49 (SN 20655180)											
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK			south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349		
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	15:45			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	1.0	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	80	cm		DISLODGED	no		REASON				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder		
COMMENTS											
download OK Replac#21 stainless steel cable OK											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK			south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229303		
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	15:01			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	1.0	AIR TEMP	4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm		DISLODGED	no		REASON				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder		
COMMENTS											
download OK Replac#18 stainless steel cable OK											
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK			south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146			UTM	630776	6229287		
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	15:09			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	1.0	AIR TEMP	4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm		DISLODGED	no		REASON				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder		
COMMENTS											
download OK Replac#17 steel chain OK											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641032	6225367			
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	16:21		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.0	AIR TEMP	5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder				
COMMENTS											
download OK											
Replac#14											
Stainless steel cable OK											
SITE ID	pineUP2	LOCATION	u/s of Pine River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20655135			UTM	641655	6225305			
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	16:31		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.0	AIR TEMP	5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	yes	REASON	tapered					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	poplar stump				
COMMENTS											
download OK											
Replac#46											
Stainless steel cable OK											
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20332124			UTM	648074	6222792			
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	-		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	0.9	AIR TEMP	5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED	yes	REASON						
BURIED		FUNCTIONAL	no	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder				
COMMENTS											
cable severed - logger gone											
Lost logger Replac#41 (SN20332124) to be replaced next session - no more spares available today											
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893055			UTM	648371	6222823			
DOWNLOAD DATE	27	Feb	2020	DOWNLOAD TIME	16:50		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	0.9	AIR TEMP	5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	120	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder				
COMMENTS											
download OK											
Replac#25											
Steel chain OK											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
SITE ID	pouceUP1		LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	20655134				UTM	11	316876	6225223	
DOWNLOAD DATE	26	Feb	2020	DOWNLOAD TIME					CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	0.9	AIR TEMP	4.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	-	cm	DISLODGED		yes	REASON	ice					
BURIED			FUNCTIONAL	no	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch			
COMMENTS												
stainless steel cable parted - logger lost												
lost logger Replac#45 (SN 20655134) replaced w ith Replac#48 (SN 20655184)												
stainless steel cable and steel capsule replaced												
SITE ID	pouceUP2		LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	north			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068				UTM	11	315884	6226162	
DOWNLOAD DATE	26	Feb	2020	DOWNLOAD TIME	15:55				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	1.1	AIR TEMP	4.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	30	cm	DISLODGED		yes	REASON	debris					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch			
COMMENTS												
logger partially sw ung to shore by debris; still functional												
down load OK												
Replac#27												
stainless steel cable OK												
SITE ID			LOCATION					BANK				
LOGGER TYPE			LOGGER SERIAL #					UTM				
DOWNLOAD DATE				DOWNLOAD TIME					CREW			
TEST RECORDER TYPE			WATER TEMP		AIR TEMP			ICE CONDITIONS				
LOGGER CONDITIONS												
WATER DEPTH		cm	DISLODGED		REASON							
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE				
COMMENTS												
SITE ID			LOCATION					BANK				
LOGGER TYPE			LOGGER SERIAL #					UTM				
DOWNLOAD DATE				DOWNLOAD TIME					CREW			
TEST RECORDER TYPE			WATER TEMP		AIR TEMP			ICE CONDITIONS				
LOGGER CONDITIONS												
WATER DEPTH		cm	DISLODGED		REASON							
BURIED			FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE				
COMMENTS												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641032	6225367			
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	14:10		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	11.5	AIR TEMP	18.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED		yes	REASON	ice	debris			
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder			
COMMENTS											
cable partially swung to shore by debris but logger still functional											
download OK											
Replac#14											
Stainless steel cable replaced with steel chain											
SITE ID	pineUP2	LOCATION	u/s of Pine River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20655135			UTM	641655	6225305			
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	14:00		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	10.8	AIR TEMP	18.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	poplar stump			
COMMENTS											
download OK											
Replac#46											
Stainless steel cable OK											
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20655185			UTM	648074	6222792			
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	n/a		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	8.3	AIR TEMP	18.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED		REASON						
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder			
COMMENTS											
New logger Replac#50 (SN 20655185) and steel capsule installed today after cable found cut on Feb 27, 2020											
replaced stainless steel cable with steel chain											
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893055			UTM	648371	6222823			
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	12:46		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	8.3	AIR TEMP	18.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder			
COMMENTS											
download OK											
Replac#25											
Steel chain OK											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
SITE ID	pineMS1	LOCATION	Pine River mainstem			BANK		north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893069			UTM	641757	6223604				
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	13:41			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	8.3	AIR TEMP	18.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	40	cm	DISLODGED		yes	REASON	ice	debris				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling				
COMMENTS												
logger partially sw ung to shore by spring ice breakup and debris; wet today but likely intermittently exposed												
dow nload OK												
Replac#28												
stainless steel cable OK												
SITE ID	pineMS2	LOCATION	Pine River mainstem			BANK		north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10635067			UTM	641757	6223604				
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	13:41			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	8.3	AIR TEMP	18.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	50	cm	DISLODGED		yes	REASON	ice	debris				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling				
COMMENTS												
logger partially sw ung to shore by spring ice breakup and debris; still functional												
dow nload OK												
Replac#10												
stainless steel cable OK												
SITE ID	beatMS1	LOCATION	Beatton R mainstem			BANK	east					
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20322122			UTM	663118	6221234				
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	10:56			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	13.6	AIR TEMP	17.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	120	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch				
COMMENTS												
dow nload OK												
Replac#36												
SITE ID	beatMS2	LOCATION	Beatton R mainstem			BANK	east					
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030828			UTM	663118	6221234				
DOWNLOAD DATE	2	June	2020	DOWNLOAD TIME	11:10			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	13.6	AIR TEMP	17.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	120	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch				
COMMENTS												
dow nload OK												
Replac#32												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM															
SITE ID		pouceUP1		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		south	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				20655184				UTM		11 316876 6225223	
DOWNLOAD DATE		2 June 2020		DOWNLOAD TIME				16:15				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		10.0		AIR TEMP		20.0		ICE CONDITIONS		none	
0															
WATER DEPTH		150 cm		DISLODGED		no		REASON				ice			
BURIED		no		FUNCTIONAL		yes		IF DRY, HEIGHT ABOVE WATER				cm TETHER TYPE		birch	
COMMENTS															
download OK															
Replac#48															
stainless steel cable OK															
SITE ID		pouceUP2		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		north	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10893068				UTM		11 315884 6226162	
DOWNLOAD DATE		2 June 2020		DOWNLOAD TIME				16:27				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		11.2		AIR TEMP		20.0		ICE CONDITIONS		none	
LOGGER CONDITIONS															
WATER DEPTH		200 cm		DISLODGED		no		REASON							
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER				cm TETHER TYPE		birch	
COMMENTS															
download OK															
Replac#27															
stainless steel cable OK															
SITE ID		LOCATION				BANK									
LOGGER TYPE		LOGGER SERIAL #				UTM									
DOWNLOAD DATE		DOWNLOAD TIME				CREW									
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS									
LOGGER CONDITIONS															
WATER DEPTH		cm		DISLODGED				REASON							
BURIED		no		FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER				cm TETHER TYPE			
COMMENTS															
SITE ID		LOCATION				BANK									
LOGGER TYPE		LOGGER SERIAL #				UTM									
DOWNLOAD DATE		DOWNLOAD TIME				CREW									
TEST RECORDER TYPE		WATER TEMP		AIR TEMP		ICE CONDITIONS									
LOGGER CONDITIONS															
WATER DEPTH		cm		DISLODGED				REASON							
BURIED				FUNCTIONAL		wet		IF DRY, HEIGHT ABOVE WATER				cm TETHER TYPE			
COMMENTS															

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	halfUP2	LOCATION	u/s of Halfway River			BANK			north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030829			UTM	595559	6230543			
DOWNLOAD DATE	3	June	2020	DOWNLOAD TIME	10:23			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	6.6	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	spruce		
COMMENTS											
download OK											
Replac#33											
stainless steel cable OK											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK			south		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	26332123			UTM	595181	6230117			
DOWNLOAD DATE	3	June	2020	DOWNLOAD TIME	10:46			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	6.4	AIR TEMP	14.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	200	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	spruce tree		
COMMENTS											
download OK											
Replac#39											
stainless steel cable OK											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK			north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598310	6232377			
DOWNLOAD DATE	3	June	2020	DOWNLOAD TIME	11:23			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	10.0	AIR TEMP	16.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	0	cm	DISLODGED		yes	REASON	ice	debris			
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	100	cm	TETHER TYPE	balsam pop		
COMMENTS											
logger swung to shore by spring debris; high and dry											
download OK											
Replac#15											
replaced stainless steel cable with steel chain											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK			north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598287	6232344			
DOWNLOAD DATE	3	June	2020	DOWNLOAD TIME	11:02			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	10.0	AIR TEMP	16.0		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON			debris			
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	balsam pop		
COMMENTS											
download OK											
Logger file ID: halfDN2BU											
steel tether chain OK											
replaced corroded steel capsule											