

**Site C Clean Energy Project**

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

**Temperature Monitoring**

**Construction Year 3 (2017)**

**Diversified Environmental Services**

**May 31, 2018**

# **DIVERSIFIED ENVIRONMENTAL SERVICES**

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## **BC HYDRO PEACE RIVER BASELINE TEMPERATURE MONITORING**

### **YEAR 9 SUMMARY – January 01 to December 31, 2017**

Date: May 31, 2018  
Attention: Brent Mossop  
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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. 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 maintained on opposing banks of the river in order to provide redundancy and confirm temperature consistency across the channel.

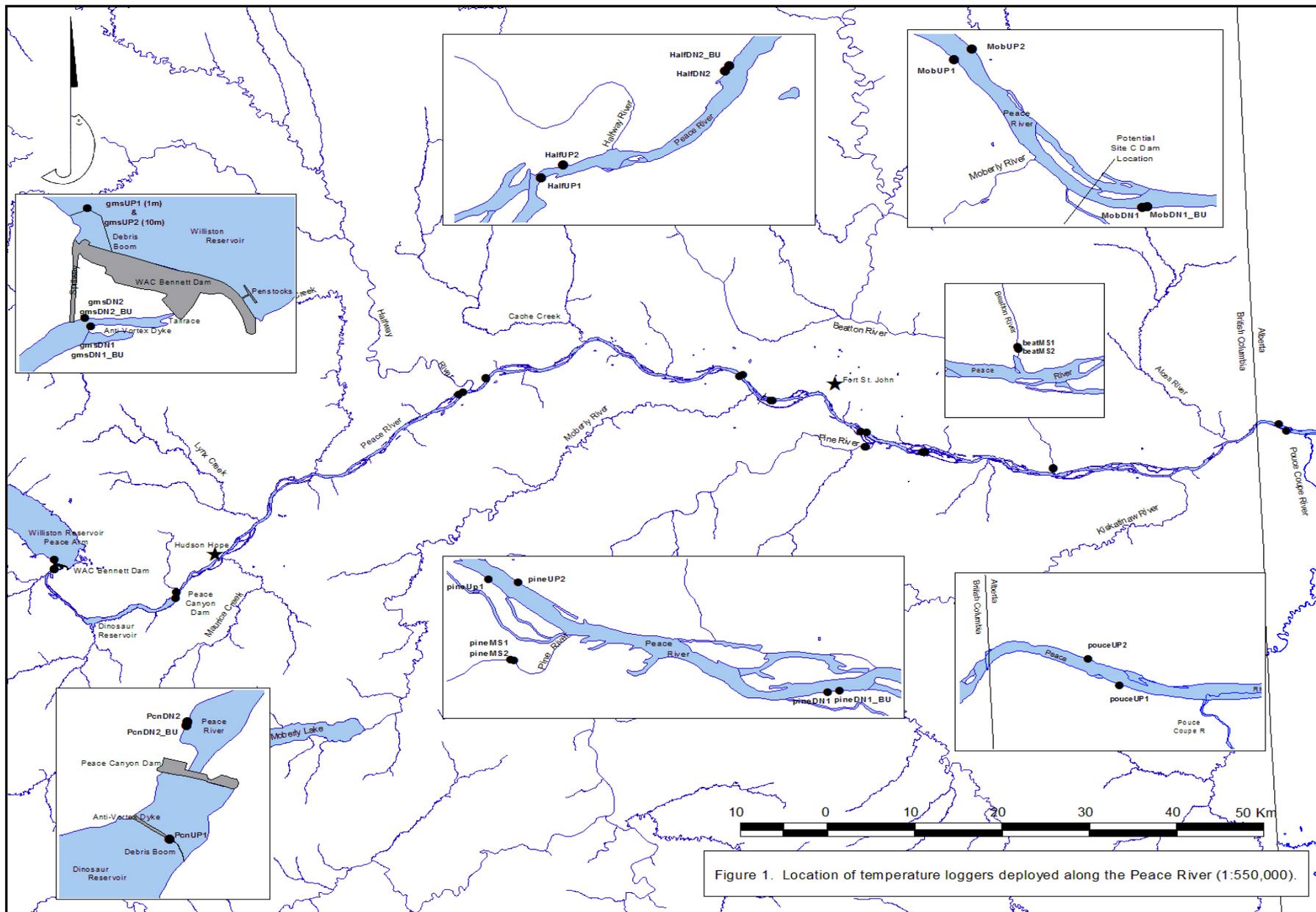


Figure 1. Location of temperature loggers deployed along the Peace River (1:550,000).

Table 1. Temperature monitoring station location information as of April 30, 2018.

Site ID	Serial #	Location	UTM (Zone 10)		Comment
			East	North	
gmsUP1	10676155	WAC Bennett Forebay	548841	6209022	steel buoy; 1 m depth
gmsUP2	10676160	WAC Bennett Forebay	548841	6209022	steel buoy; 10 m depth
gmsDN1	10635063	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN1BU	2038613	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN2	10669739	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
gmsDN2BU	2038614	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
pcnUP1	10635067	Peace Canyon Forebay	562710	6204068	anti-vortex log boom; 1 m depth
pcnDN2	10156317	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
pcnDN2BU	10635061	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
HalfUP1	20097151	Halfway Confluence - upstream	595165	6230094	south bank; spruce tree
HalfUP2	20030829	Halfway Confluence - upstream	595569	6230541	north bank; spruce tree
HalfDN2	10669748	Halfway Confluence - downstream	598198	6232169	north bank; balsam poplar
HalfDN2BU	10156314	Halfway Confluence - downstream	598179	6232144	north bank; balsam poplar
MobUP1	10887852	Moberly Confluence - upstream	627158	6232349	south bank; alder
MobUP2	10669754	Moberly Confluence - upstream	627501	6232563	north bank; spruce tree
MobDN1	10676146	Moberly Confluence - downstream	630583	6229281	south bank; alder
MobDN1BU	10676147	Moberly Confluence - downstream	630402	6229303	south bank; alder
PineUP1	10669747	Pine Confluence - upstream	641034	6225375	south bank; alder
PineUP2	9767573	Pine Confluence - upstream	641653	6225304	north bank; balsam poplar
PineDN1	10156319	Pine Confluence - downstream	648101	6222802	south bank; alder
PineDN1BU	10893055	Pine Confluence - downstream	648362	6222823	south bank; alder
PineMS1	10893069	Pine Mainstem - upstream of Peace	641762	6223599	north bank; steel piling
PineMS2	10887856	Pine Mainstem - upstream of Peace	641677	6223590	north bank; balsam poplar
BeatMS1	10930722	Beatton Mainstem - upstream of Peace	663101	6220759	east bank; spruce
BeatMS2	20030828	Beatton Mainstem - upstream of Peace	663121	6221232	east bank; birch
PouceUP1	10893059	Pouce Coupe confluence - upstream	*316873	6225211	south bank; birch; *UTM Zone 11
PouceUP2	10893068	Pouce Coupe confluence - upstream	*316146	6226036	south bank; spruce; *UTM Zone 11

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. During 2017, the tethers on the lower Beaton mainstem loggers (beatMS1 and beatMS2) were replaced with heavier 12.7 mm galvanized cable, after the 3.18 mm tethers were parted by flowing ice in the spring and large woody debris during summer storm events.

Temperature data recorded and stored on each logger during 2017 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) or certified laboratory-grade mercury thermometer calibrated in increments of 0.1°C 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. 2.3.0) and amalgamated into single Excel worksheets for each data logger.

Occasional loss of loggers and stranding of loggers above the waterline occurred during Year 9. These issues were predominantly associated with April ice flows from the mouths of the Pine and Beaton rivers and large woody debris flows from the Halfway, Moberly, Pine, and Beaton rivers during tributary freshet and storm-related flood events in mid-May and early June 2017. Some loggers located downstream of the Halfway, Pine and Moberly river confluences were intermittently exposed

during late April by debris originating from tributaries, which coincided with very low water levels in the Peace River due to low discharge from BC Hydro facilities upstream.

An intermittent technical problem with the Hobo™ optical transfer shuttle resulted in the loss or corruption of several quarterly data files in 2017. The shuttle periodically failed to re-launch some loggers with the correct program parameters at the end of the download sequence and data was improperly recorded in the following 3 months. Diagnosis of the problem was delayed due to the intermittent nature of the glitch and the shuttle was replaced in April 2018.

Reference temperatures recorded during download events are presented in Appendix I along with corresponding logger temperatures and indicated error values. None of the loggers used in 2017 exhibited a correctable zero error greater than 0.3°C. Download Information Forms completed during each field download session are provided in Appendix II.

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 suspended at a depth of 10 m (gmsUP2). Both loggers recorded continuous water temperature data throughout Year 9. Although seasonal thermal stratification of Williston Reservoir is evident, the relatively small temperature differential between the 2 loggers (mean=0.3°C) suggests the primary thermocline lies deeper than 10 m. Maximum temperature differentials up to 6.3°C were recorded during a period of significant daytime surface warming during the first two weeks of August, when annual ambient temperatures peaked. Temperature profiles recorded further up the Peace Reach during unrelated work in August 2012 and October 2017 indicated a thermocline at approximately 26 m and 20 m depth, respectively (B. Culling, pers. obs.).

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). All 4 loggers collected seamless data through Year 9.

As in previous years, water temperatures at gmsDN2 showed the lowest annual variation and are consistently cooler in the summer and warmer in the winter than gmsDN1 flow, which originates closer to the surface of Williston Reservoir. Temperatures recorded at gmsUP1 (forebay surface) exhibit greater annual variation than tailrace values. Temperatures recorded at gmsDN1 and gmsDN2 exhibit a wide range of hourly and daily fluctuations during the summer period compared to gmsUP1, due to operational changes in water intake for power generation and maintenance activities.

### **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. The pcnUP1 data file for the period between January 1 and January 4, 2017 was corrupted by a faulty launch by the Hobo optical shuttle in October 2016. Temperature data were recovered for the remainder of Year 9 (16:00 hrs on January 4 to December 31, 2017).

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. Both loggers recorded continuous data throughout Year 9. A comparison of PCN tailrace temperature (pcnDN2) and GMS tailrace temperature (mean of gmsDN1 and gmsDN2) indicates a relatively small temperature change through Dinosaur Reservoir during all seasons. For example, no temperature difference was recorded in winter (December through February) and a mean differential of 0.6°C was recorded in summer (June through August). Some thermal stratification of the Peace Canyon forebay occurred due to surface warming when ambient temperatures peaked during the summer. For example, PCN forebay temperatures at 1 m depth (pcnUP1) were as much as 8.4°C warmer than water exiting the PCN powerhouse (pcnDN2) between June 30 and July 25, 2017.

### **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 9 (halfUP1 and halfUP2). Data sets from both upstream loggers for the period between January 1 and March 10, 2017 were corrupted by a faulty optical shuttle and could not be recovered. Logger halfUP1 recorded continuous data for the remainder of the year (March 10 to December 31, 2017), while logger halfUP2 became intermittently stranded

during periods of low water between July and October after being pulled partially to shore by curious persons on July 27, 2017, 19 days after the July download session. No cross-channel differential was recorded between the opposing upstream stations.

Both Halfway downstream loggers (halfDN2 and halfDN2BU) were located on the left downstream bank within the influence of Halfway River inputs. Logger halfDN2 recorded continuous water temperature data throughout Year 9. Logger halfDN2BU was swung into shallow water by ice and debris from the Halfway River in early April and intermittently recorded air temperature during periods of low flow prior to the April 21 download.

As in previous years, Peace River temperature values recorded at stations upstream and downstream of the Halfway River confluence differed markedly. Temperatures collected downstream of the confluence exhibited a higher degree of daily and annual variability. Halfway River inputs typically have a cooling effect during the winter (October through April) and a warming effect during the summer (May through September). Temperatures within the Halfway River mainstem upstream of its confluence with the Peace are not recorded as part of this project.

### **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 9 (mobUP1 and mobUP2). Logger mobUP1 recorded continuous water temperature data throughout Year 9 despite being partially swung to shore by debris or ice prior to the April 27, 2017 download session. Logger mobUP2 was also partially swung to shore by ice or debris prior to the April 27, 2017 download session and recorded ambient air temperature intermittently between March 28 and April 27, 2017. During a high water event prior to the July download session, logger mobUP2 became imbedded in sediment, which may have moderated water temperature fluctuations readings. A slight cross-channel differential of 0.1°C was recorded between July 14 and August 31, 2017.

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. Both loggers also lie immediately downstream of the footprint of the proposed Site C dam. Logger mobDN1BU recorded continuous water temperature data throughout Year 9. Logger mobDN1 was found partially swung to shore and exposed at extremely low water during the April 27, 2017 download

session and appears to have intermittently recorded ambient air temperatures between March 28 and April 27, 2017.

As in previous years, Peace River water temperatures recorded within the influence of the Moberly River were cooler than the Moberly upstream stations from January through March and warmer than the upstream stations from May through July. The influence of the Moberly River is significantly less than that of the Halfway River and appears to correspond to the difference in relative contributed volumes. Temperatures within the Moberly River upstream of its confluence with the Peace River are not recorded as part of this project.

### **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 9, 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. Logger pineUP1 recorded continuous hourly data throughout Year 9. Logger pineUP2 collected continuous hourly data from January 1 to October 19; however, data from October 19 to December 31, 2017 were corrupted by a faulty optical shuttle and could not be recovered. A slight cross-channel differential of 0.2°C was recorded between July 1 and August 31, 2017.

Both Pine downstream loggers (pineDN1 and pineDN1BU) exhibited periodic data gaps as a result of dislodgement by ice flows from the Pine River in early April 2017 and debris flow from the Pine River during storm events in May and June 2017. Logger pineDN1 was partially swung to shore by debris prior to each download session. As a result, air temperatures were recorded frequently in April and sporadically in November and early December 2017. Logger pineDN1BU became exposed briefly in mid-April due to extremely low water conditions and was swung to shore and stranded in mid-June 2017 due to debris accumulations on the anchor cable.

Temperature values recorded within the downstream influence of the Pine River were typically cooler than the Pine River upstream stations from late September through December and slightly warmer from July through mid-September.

## **Pine River Mainstem**

Temperature loggers in the lower Pine River mainstem were initially installed on April 15, 2016. During 2017, 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 are not downloaded between October and April.

Logger pineMS1 recorded continuous data throughout Year 9. Back-up logger pineMS2 was lost during the break-up of ice in the lower Pine River just prior to the April 2018 download session. As a result, pineMS2 data from October 19, 2017 to April 27, 2018 is not available. An attempt will be made to recover the unit during the summer 2018 low flow period.

## **Beaton River Mainstem**

Temperature loggers in the lower Beaton River mainstem (beatMS1 and beatMS2) were initially installed on April 15, 2016. The lower Beaton monitoring sites have proven to be the most susceptible to dislodgement and 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 in April 2017. In addition, the location of both loggers was adjusted during 2017 to minimize contact with debris flow. Both loggers are currently located on the left downstream bank approximately 1.0 km upstream from the confluence with the Peace River. The lower Beaton mainstem loggers are typically not accessible during the winter months due to heavy ice cover and cannot be downloaded between October and April.

Both loggers (beatMS1 and beatMS2) were lost to the break-up of ice in April 2017 and no data from January 01 to April 28, 2017 could be recovered. Logger beatMS1 was again lost to ice break-up prior to the April 2018 download and, as result, 2017 data from this logger could only be recovered for April 28 to October 16. An attempt will be made to recover this logger during the summer 2018 low flow period. Back-up logger beatMS2 was successfully downloaded in April 2018 and continuous data is available from April 28, 2017 to April 27, 2018. The 12.7 mm cable tether on logger beatMS1 will be replaced with galvanized chain in 2018 in an attempt to minimize risk of loss during ice break-up in April 2019.

### **Peace River Upstream of Pouce Coupe River**

Temperature loggers in the Peace River mainstem upstream of the Pouce Coupe River confluence (pouceUP1 and pouceUP2) were initially installed on April 15, 2016. The pouceUP1 and pouceUP2 stations are currently located 2.4 km and 3.3 km upstream of the confluence with the Pouce Coupe River, respectively.

No logistical issues were encountered at either site during 2017 and both loggers were successfully downloaded on April 27, July 15, and October 19, 2017 and on January 17, 2018. Continuous data is available throughout 2017.

## **APPENDIX I**

### **REFERENCE TEMPERATURE VALUES**

Appendix I. Reference temperature values and corresponding logger fix values recorded during download events in Year 9, January 2017 to January 2018.

Logger ID	Date	Fix Temp	Ref Temp	Error
gmsUP1 (SN 10676155)	13-Jul-17	14.2	14.5	-0.3
	20-Oct-17	10.8	10.6	0.2
gmsUP2 (SN 10666180)	21-Apr-17	-	-	
	13-Jul-17	12.8	12.8	0.0
	20-Oct-17	10.8	10.6	0.2
gmsDN1 (SN 10635063)	21-Apr-17	1.9	1.9	0.0
	13-Jul-17	10.0	10.2	-0.2
	20-Oct-17	10.6	10.6	0.0
	10-Jan-18	1.8	1.7	0.1
gmsDN1_BU (SN 2038613)	21-Apr-17	2.0	1.9	0.1
	13-Jul-17	10.1	10.2	-0.1
	20-Oct-17	10.8	10.6	0.2
	10-Jan-18	1.9	1.7	0.2
gmsDN2 (SN 10669739)	21-Apr-17	1.9	2.2	-0.3
	13-Jul-17	9.8	10.0	-0.2
	20-Oct-17	9.9	9.8	0.1
	10-Jan-18	1.8	1.7	0.1
gmsDN2_BU (SN 2038614)	21-Apr-17	2.0	2.2	-0.2
	13-Jul-17	9.9	10.0	-0.1
	20-Oct-17	10.0	9.8	0.2
	10-Jan-18	1.9	1.7	0.2
pcnUP1 (SN 10635067)	21-Apr-17	2.2	2.2	0.0
	13-Jul-17	16.5	16.2	0.3
	20-Oct-17	10.4	10.2	0.2
	10-Jan-18	1.4	1.1	0.3
pcnDN2 (SN 10156317)	21-Apr-17	2.1	2.1	0.0
	13-Jul-17	10.5	10.4	0.1
	20-Oct-17	10.4	10.4	0.0
	10-Jan-18	1.2	1.3	-0.1
pcnDN2_BU (SN 10635061)	21-Apr-17	2.1	2.1	0.0
	20-Oct-17	10.4	10.4	0.0
	10-Jan-18	1.5	1.3	0.2
halfUP1 (SN 9767573)	21-Apr-17	3.0	3.1	-0.1
	8-Jul-17	13.4	13.5	-0.1
	27-Oct-17	9.5	9.4	0.1
halfUP1 (SN 20097151)	3-Jan-18	0.9	0.9	0.0

Appendix II cont. Reference temperature values and corresponding logger fix values recorded during download events in Year 9, January 2017 to January 2018.

Logger ID	Date	Logger Temp	Reference Temp	Error
halfUP2 (SN 10156319)	21-Apr-17	2.8	2.9	-0.1
	8-Jul-17	13.5	13.5	0.0
	27-Oct-17	9.5	9.4	0.1
halfUP2 (SN 20030829)	3-Jan-18	1.2	0.9	0.3
halfDN2 (SN 10669748)	21-Apr-17	2.1	2.5	-0.4
	8-Jul-17	20.1	20.5	-0.4
	27-Oct-17	6.8	6.7	0.1
	3-Jan-18	0.9	0.7	0.2
halfDN2_BU (SN 10156314)	8-Jul-17	19.9	20.5	-0.6
	27-Oct-17	6.8	6.7	0.1
	3-Jan-18	1.0	0.7	0.3
mobUP1 (SN 10887852)	27-Apr-17	4.0	4.1	-0.1
	14-Jul-17	11.9	11.8	0.1
	19-Oct-17	9.7	9.5	0.2
	4-Jan-18	0.8	0.5	0.3
mobUP2 (SN 10669754)	27-Apr-17	4.1	3.8	0.3
	14-Jul-17	12.0	11.9	0.1
	19-Oct-17	9.6	9.3	0.3
	4-Jan-18	0.8	0.5	0.3
mobDN1 (SN 10676146)	14-Jul-17	12.3	12.3	0.0
	19-Oct-17	9.6	9.6	0.0
	4-Jan-18	0.9	0.6	0.3
mobDN1_BU (SN 10676147)	27-Apr-17	4	3.9	0.1
	14-Jul-17	12.4	12.3	0.1
	19-Oct-17	9.6	9.6	0.0
	4-Jan-18	0.8	0.6	0.2
pineUP1 (SN10669747)	27-Apr-17	5.0	4.7	0.3
	14-Jul-17	12.1	12.6	-0.5
	19-Oct-17	9.5	9.1	0.4
	4-Jan-18	0.8	0.5	0.3
pineUP2 (SN10635062)	27-Apr-17	3.8	3.9	-0.1
	14-Jul-17	12.3	12.0	0.3

Appendix III cont. Reference temperature values and corresponding logger fix values recorded during download events in Year 9, January 2017 to January 2018.

Logger ID	Date	Logger Temp	Reference Temp	Error
pineDN1 (SN 2226322)	28-Apr-17	5.4	5.3	0.1
	14-Jul-17	13.9	13.8	0.1
	16-Oct-17	8.2	8.2	0.0
	4-Jan-18	0.6	0.3	0.3
pineDN1_BU (SN 10893055)	14-Jul-17	13.7	13.8	-0.1
	16-Oct-17	8.3	8.2	0.1
	4-Jan-18	0.6	0.3	0.3
pineMS1 (SN 10893069)	02-Jun-17	9.6	9.5	0.1
	14-Jul-17	15.4	15.4	0.0
	19-Oct-17	3.8	3.8	0.0
pineMS2 (SN 10887856)	14-Jul-17	15.5	15.4	0.0
	19-Oct-17	3.8	3.8	0.0
beatMS1 (SN 10930722)	2-Jun-17	17.0	16.8	0.2
	16-Oct-17	5.2	5.0	0.2
beatMS2 (SN 20030828)	2-Jun-17	17.0	16.8	0.2
	16-Oct-17	5.1	5.0	0.1
pouceUP1 (SN 10893059)	27-Apr-17	5.6	5.5	0.1
	15-Jul-17	15.0	15.1	-0.1
	19-Oct-17	7.6	7.4	0.2
	17-Jan-18	0.3	0.1	0.2
pouceUP2 (SN 10893068)	27-Apr-17	5.5	5.6	-0.1
	15-Jul-17	14.8	14.9	-0.1
	17-Jan-18	0.3	0.2	0.1

## **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	21	Apr	2017	DOWNLOAD TIME	n/a			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	AIR TEMP		2	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH			cm	DISLODGED	no		REASON				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	steel buoy		
COMMENTS											
Not dow nloaded due to unsafe ice conditions											
RPL#19											
SITE ID	gmsUP2		LOCATION	GMS Forebay			BANK				
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676160			UTM	548841	6209022		
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	n/a			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	AIR TEMP		2	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH			cm	DISLODGED	no		REASON				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	steel buoy		
COMMENTS											
Not dow nloaded due to unsafe ice conditions											
RPL#20											
SITE ID	gmsDN2		LOCATION	GMS Tailrace RDB			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669739			UTM	548828	6207836		
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	11:28			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	2.2	AIR TEMP	2	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											
Back-up logger gmsDN2-BU 2038614 in same capsule 11:29											
both dow nloads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger-Rpl #11, SN 10669739 @ 11:28											
SITE ID	gmsDN1		LOCATION	GMS Tailrace LDB			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635063			UTM	548881	6207761		
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	11:43			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	1.9	AIR TEMP	2	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											
Back-up logger gmsDN1-BU 2038613 in same capsule 11:44											
both dow nloads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
Primary logger = gmsDN1-RPL#17, SN10635063 @ 11:43											

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	21	Apr	2017	DOWNLOAD TIME	10:04		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	2.2	AIR TEMP	3.0	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										
all stainless steel cable ok										
Rpl #10										
SITE ID	pcnDN2	LOCATION	PCN Tailrace			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156317			UTM	562803	6204854		
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	9:39		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	2.1	AIR TEMP	3.0	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										
all stainless steel cable ok										
RPL# 2										
SITE ID	pcnDN2_BU	LOCATION	PCN Tailrace			BANK	north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10635061			UTM	562803	6204854		
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	9:44		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	2.1	AIR TEMP	3.0	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										
all stainless steel cable ok										
Anchored to same rock as pcnDN2										
Rpl #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 Half way River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156319			UTM	595569	6230541			
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	14:00	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	2.9	AIR TEMP	5	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			
COMMENTS											
RPL# 11											
download OK											
stainless cable OK, buried by sloughing bank material											
SITE ID	halfUP1	LOCATION	u/s of Half way River			BANK		south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094			
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	14:12	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	3.1	AIR TEMP	5	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											
labelled as "halfUP1"											
download OK											
cable OK											
SITE ID	halfDN2	LOCATION	d/s of Half way River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	13:37	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	2.5	AIR TEMP	5	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop			
COMMENTS											
water very low											
download OK											
stainless steel cable OK											
Rpl #15											
SITE ID	halfDN2_BU	LOCATION	d/s of Half way River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	21	Apr	2017	DOWNLOAD TIME	13:34	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	2.5	AIR TEMP	5	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	balsam pop		
COMMENTS											
water very low											
download OK											
stainless steel cable OK											
swung to shore by debris; high and dry at current low water level.											

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	Apr	2017	DOWNLOAD TIME	10:22			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	3.8	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	300	cm	DISLODGED		yes	REASON	ice				
BURIED	no		FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	10	cm	TETHER TYPE	spruce	
COMMENTS											
download Ok											
stainless steel cable OK											
Rpl #16, SN 10669754											
water extremely low											
logger partially submerged to shore; exposed due to extremely low water											
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349		
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	10:46			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	4.1	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLODGED		no	REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder	
COMMENTS											
water extremely low											
RPL#21-10887852											
partially submerged to shore but still wetted											
download ok											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630402	6229275		
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	11:12			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	3.9	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLODGED		no	REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder	
COMMENTS											
download OK											
water extremely low											
RPL#18											
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669746			UTM	630583	6229281		
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	11:08			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	3.9	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED		no	REASON	ice	debris			
BURIED	no		FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	30	cm	TETHER TYPE	spruce	
COMMENTS											
water extremely low causing exposure											
download OK											
Rpl # 17											

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 #	10635062			UTM	641653	6225304				
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	11:47			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	3.9	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	balsam pop				
COMMENTS												
download OK												
Stainless steel cable OK												
RPL#6												
water very low but logger is plenty deep, should not have been exposed												
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641034	6225372				
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	11:41			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	4.7	AIR TEMP	8.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH	30	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
download OK												
Rpl # 14												
Stainless steel cable OK												
water very low at time of download												
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9762095			UTM	648362	6222823				
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	12:46			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	5.1	AIR TEMP	8.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH	20	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
download OK												
water very low today												
Stainless steel cable OK												
RPL# 25												
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802				
DOWNLOAD DATE	28	Apr	2017	DOWNLOAD TIME	11:11			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	5.3	AIR TEMP	8.0	ICE CONDITIONS	none					
LOGGER CONDITIONS												
WATER DEPTH		cm	DISLODGED	yes	REASON	ice	debris					
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	60	cm	TETHER TYPE	alder			
COMMENTS												
download OK												
swung to shore and stranded/exposed												
Stainless steel cable OK												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
<b>SITE ID</b>	PineMS1		<b>LOCATION</b>	Pine River mainstem			<b>BANK</b>			north		
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10893069			<b>UTM</b>	641900		6223491		
<b>DOWNLOAD DATE</b>	27	Apr	2017	<b>DOWNLOAD TIME</b>	12:01			<b>CREW</b>	BC TE			
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	5.8	<b>AIR TEMP</b>	8.0	<b>ICE CONDITIONS</b>	none				
LOGGER CONDITIONS												
<b>WATER DEPTH</b>	30	cm	<b>DISLODGED</b>	yes		<b>REASON</b>	ice					
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet		<b>IF DRY, HEIGHT ABOVE WATER</b>			cm	<b>TETHER TYPE</b>	steel piling	
COMMENTS												
anchor w eight gone but logger still present												
sw ung to shore but wet												
RPL# 28												
download OK												
<b>SITE ID</b>	PineMS2		<b>LOCATION</b>	Pine River mainstem			<b>BANK</b>	south				
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10887856			<b>UTM</b>	641677		6223590		
<b>DOWNLOAD DATE</b>	27	Apr	2017	<b>DOWNLOAD TIME</b>	12:18			<b>CREW</b>	BC TE			
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	5.8	<b>AIR TEMP</b>	8.0	<b>ICE CONDITIONS</b>	none				
LOGGER CONDITIONS												
<b>WATER DEPTH</b>	150	cm	<b>DISLODGED</b>	yes		<b>REASON</b>	ice					
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	dry		<b>IF DRY, HEIGHT ABOVE WATER</b>	10	cm	<b>TETHER TYPE</b>	balsam pop		
COMMENTS												
sw ung to shore, high and dry above water level												
RPL#23												
<b>SITE ID</b>	BEATMS1		<b>LOCATION</b>	Beaton R mainstem			<b>BANK</b>	east				
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10930732			<b>UTM</b>	663101		6220759		
<b>DOWNLOAD DATE</b>	27	April	2017	<b>DOWNLOAD TIME</b>	n/a			<b>CREW</b>	BC TE			
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	5.4	<b>AIR TEMP</b>	10.0	<b>ICE CONDITIONS</b>	none				
LOGGER CONDITIONS												
<b>WATER DEPTH</b>			cm	<b>DISLODGED</b>			<b>REASON</b>					
<b>BURIED</b>			<b>FUNCTIONAL</b>	wet		<b>IF DRY, HEIGHT ABOVE WATER</b>			cm	<b>TETHER TYPE</b>	wolf willow	
COMMENTS												
logger cable parted and logger (RPL# 24) and housing gone												
replaced with RPL# 29, S/N10930722 at same location on Apr 28, 2017 @ 11:56												
<b>SITE ID</b>	BEATMS2		<b>LOCATION</b>	Beaton R mainstem			<b>BANK</b>	east				
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10893055			<b>UTM</b>	663098		6220723		
<b>DOWNLOAD DATE</b>	27	April	2017	<b>DOWNLOAD TIME</b>				<b>CREW</b>	BC TE			
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	5.4	<b>AIR TEMP</b>	10.0	<b>ICE CONDITIONS</b>	none				
LOGGER CONDITIONS												
<b>WATER DEPTH</b>			cm	<b>DISLODGED</b>			<b>REASON</b>					
<b>BURIED</b>			<b>FUNCTIONAL</b>	wet		<b>IF DRY, HEIGHT ABOVE WATER</b>			cm	<b>TETHER TYPE</b>	wolf willow	
COMMENTS												
logger cable parted and logger (RPL# 31) and housing gone												
replaced with RPL# 32, S/N20030828 at NEW location (10.663121.6221232) on Apr 28, 2017 @ 12:16												

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 #	10893059			UTM	11	316873	6225211	
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	15:37		CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	5.5	AIR TEMP	15.0	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											
RPL#26											
SITE ID	pouceUP2	LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	north			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068			UTM	11	316146	6226036	
DOWNLOAD DATE	27	Apr	2017	DOWNLOAD TIME	15:48		CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	5.6	AIR TEMP	15.0	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		
COMMENTS											
download OK											
RPL#27											
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	PineMS1		LOCATION	Pine River mainstem			BANK			north
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893069			UTM	641762	6223549	
DOWNLOAD DATE	2	June	2017	DOWNLOAD TIME	11:33			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	9.5	AIR TEMP	17.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	100	cm	DISLODGED		yes	REASON	debris			
BURIED	no		FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel piling
COMMENTS										
sw ung to shore by debris but still submerged										
stainless cable OK										
RPL# 28										
SITE ID	PineMS2		LOCATION	Pine River mainstem			BANK			south
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887856			UTM	641677	6223590	
DOWNLOAD DATE	2	June	2017	DOWNLOAD TIME	n/a			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	9.5	AIR TEMP	17.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH		cm	DISLODGED		yes	REASON	debris			
BURIED			FUNCTIONAL			IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam poplar
COMMENTS										
partially sw ung to shore w ith large debris accumulation on cable										
due to w ater depth and amount of debris accumulation, the unit could not be retrieved at this time; w ill return w hen flow recedes.										
SITE ID	beatMS1		LOCATION	Beaton R mainstem			BANK			east
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10930722			UTM	663101	6220759	
DOWNLOAD DATE	2	June	2017	DOWNLOAD TIME	10:15			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	16.8	AIR TEMP	17.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	30	cm	DISLODGED		yes	REASON	debris			
BURIED	no		FUNCTIONAL	w et		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch
COMMENTS										
RPL# 29										
dow nload OK										
sw ung near shore but w et										
SITE ID	beatMS2		LOCATION	Beaton R mainstem			BANK			east
LOGGER TYPE	Tidbit		LOGGER SERIAL #	20030828			UTM	663098	6220723	
DOWNLOAD DATE	2	June	2017	DOWNLOAD TIME	10:34			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	16.8	AIR TEMP	17.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	80	cm	DISLODGED	no		REASON				
BURIED	no		FUNCTIONAL	w et		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	birch
COMMENTS										
RPL# 32										
dow nload OK										
sw ung near shore but w et										

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	13	Jul	2017	DOWNLOAD TIME			11:51			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	14.5	AIR TEMP	12	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											
RPL#19											
SITE ID	gmsUP2		LOCATION			GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10676180			UTM	548841	6209022
DOWNLOAD DATE	13	July	2017	DOWNLOAD TIME			11:48			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	12.8	AIR TEMP	12	ICE CONDITIONS		none		
LOGGER CONDITIONS											
WATER DEPTH	1000	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											
RPL#20											
SITE ID	gmsDN2		LOCATION			GMS Tailrace RDB			BANK		north
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10669739			UTM	548828	6207836
DOWNLOAD DATE	13	Jul	2017	DOWNLOAD TIME			10:55			CREW	BC TE
TEST RECORDER TYPE	merc		WATER TEMP	10	AIR TEMP	12	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											
Back-up logger gmsDN2-BU 2038614 in same capsule 10:56											
both down loads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger-Rpl #11, SN 10669739											
water very low at tailrace											
SITE ID	gmsDN1		LOCATION			GMS Tailrace LDB			BANK		south
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10635063			UTM	548881	6207761
DOWNLOAD DATE	13	Jul	2017	DOWNLOAD TIME			11:10			CREW	BC TE
TEST RECORDER TYPE	merc		WATER TEMP	10.2	AIR TEMP	12	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											
Back-up logger gmsDN1-BU 2038614 in same capsule 11:11											
both down loads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger gmsDN1-RPL#7											
water very low at tailrace											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
SITE ID	pcnUP1		LOCATION	PCN Forebay				BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635067				UTM	562684	6204075		
DOWNLOAD DATE	13	Jul	2017	DOWNLOAD TIME	10:01				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	16.2	AIR TEMP	12.0		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												
all stainless steel cable ok												
RPL #10												
SITE ID	pcnDN2		LOCATION	PCN Tailrace				BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10156317				UTM	562803	6204854		
DOWNLOAD DATE	13	Jul	2017	DOWNLOAD TIME	9:43				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	12.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	40	cm	DISLODGED	no		REASON						
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	rock		
COMMENTS												
download OK												
all stainless steel cable ok												
RPL# 2												
water very low at tailrace												
SITE ID	pcnDN2_BU		LOCATION	PCN Tailrace				BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635061				UTM	562803	6204854		
DOWNLOAD DATE	13	Jul	2017	DOWNLOAD TIME	9:44				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	12.0		ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	50	cm	DISLODGED	no		REASON						
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	rock		
COMMENTS												
download OK												
all stainless steel cable ok												
Anchored to same rock as pcnDN2												
Rpl #9												
water very low at tailrace												
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 Half way River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156319			UTM	595569	6230541			
DOWNLOAD DATE	8	Jul	2017	DOWNLOAD TIME	17:55	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	13.5	AIR TEMP	24	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	80	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce				
COMMENTS											
download OK											
cable OK											
RPL#1											
SITE ID	halfUP1	LOCATION	u/s of Half way River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094			
DOWNLOAD DATE	8	Jul	2017	DOWNLOAD TIME	18:05	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	17.4	AIR TEMP	15	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	180	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce tree				
COMMENTS											
logger label "halfUP1R"											
download OK											
cable OK											
SITE ID	halfDN2	LOCATION	d/s of Half way River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	8	Jul	2017	DOWNLOAD TIME	17:40	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	20.5	AIR TEMP	24	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	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											
Rpl #15											
SITE ID	halfDN2_BU	LOCATION	d/s of Half way River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	8	July	2017	DOWNLOAD TIME	17:37	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	20.5	AIR TEMP	24	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop				
COMMENTS											
logger label "halfDN2_BU"											
stainless steel cable OK											
download 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	14	Jul	2017	DOWNLOAD TIME	10:25				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	11.9	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	80	cm	DISLODGED	no		REASON					
BURIED	yes	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	spruce	
COMMENTS											
RPL#16											
download OK											
buried in sediment											
SITE ID	mobUP1		LOCATION	u/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852				UTM	627158	6232349	
DOWNLOAD DATE	14	Jul	2017	DOWNLOAD TIME	10:39				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	11.8	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	70	cm	DISLODGED	no		REASON					
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder	
COMMENTS											
RPL# 21											
stainless cable ok											
download ok											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147				UTM	630875	6229275	
DOWNLOAD DATE	14	Jul	2017	DOWNLOAD TIME	10:03				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	12.3	AIR TEMP	18.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	30	cm	DISLODGED	yes		REASON					
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder	
COMMENTS											
download OK											
RPL#18											
SITE ID	mobDN1		LOCATION	d/s of Moberly River				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146				UTM	630776	6229287	
DOWNLOAD DATE	14	Jul	2017	DOWNLOAD TIME	10:10				CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	12.3	AIR TEMP	16.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	50	cm	DISLODGED	no		REASON					
BURIED	no	FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder	
COMMENTS											
download OK											
Rpl # 17											

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 #	10635062			UTM	641653	6225304				
DOWNLOAD DATE	14	Jul	2017	DOWNLOAD TIME	11:19			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	12.0	AIR TEMP	16.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	150	cm	DISLODGED	no	REASON							
BURIED	yes	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop				
COMMENTS												
download OK												
Stainless steel cable OK												
RPL#6												
buried in sediment												
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641034	6225372				
DOWNLOAD DATE	14	Jul	2017	DOWNLOAD TIME	11:09			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	12.6	AIR TEMP	16.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	50	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
download OK												
Rpl # 14												
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	14	Jul	2017	DOWNLOAD TIME	12:27			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	13.8	AIR TEMP	16.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH		cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	100	cm	TETHER TYPE	alder			
COMMENTS												
RPL# 25												
download OK												
new stainless steel cable												
swung to shore but no debris, cottonwood on top of cable												
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802				
DOWNLOAD DATE	14	Jul	2017	DOWNLOAD TIME	12:06			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	13.8	AIR TEMP	16.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH		cm	DISLODGED	yes	REASON			debris				
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER	150	cm	TETHER TYPE	alder			
COMMENTS												
download OK												
swung to shore by debris and exposed												
Stainless steel cable OK												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM												
<b>SITE ID</b>	PineMS1		<b>LOCATION</b>			Pine River mainstem			<b>BANK</b>	north		
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>			10893069			<b>UTM</b>	641762		6223549
<b>DOWNLOAD DATE</b>	14	Jul	2017	<b>DOWNLOAD TIME</b>			11:23			<b>CREW</b>	BC TE	
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	15.4	<b>AIR TEMP</b>	16.0		<b>ICE CONDITIONS</b>		none		
LOGGER CONDITIONS												
<b>WATER DEPTH</b>			cm	<b>DISLODGED</b>			yes	<b>REASON</b>	debris			
<b>BURIED</b>	no		<b>FUNCTIONAL</b>			dry	<b>IF DRY, HEIGHT ABOVE WATER</b>	5	cm	<b>TETHER TYPE</b>	steel piling	
COMMENTS												
RPL# 28												
stainless cable OK												
sw ung to shore by debris and just above wetted perimeter												
<b>SITE ID</b>	PineMS2		<b>LOCATION</b>			Pine River mainstem			<b>BANK</b>	south		
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>			10887856			<b>UTM</b>	641677		6223590
<b>DOWNLOAD DATE</b>	14	Jul	2017	<b>DOWNLOAD TIME</b>			11:45			<b>CREW</b>	BC TE	
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	15.4	<b>AIR TEMP</b>	16.0		<b>ICE CONDITIONS</b>		none		
LOGGER CONDITIONS												
<b>WATER DEPTH</b>	20		cm	<b>DISLODGED</b>			yes	<b>REASON</b>	debris			
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet		<b>IF DRY, HEIGHT ABOVE WATER</b>			cm	<b>TETHER TYPE</b>	balsam pop	
COMMENTS												
download OK												
partially sw ung to shore by debris but submerged												
RPL#23												
stainless cable OK												
<b>SITE ID</b>	beatMS1		<b>LOCATION</b>			Beaton R mainstem			<b>BANK</b>	east		
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>			10930722			<b>UTM</b>	663101		6220759
<b>DOWNLOAD DATE</b>	14	Jul	2017	<b>DOWNLOAD TIME</b>			12:48			<b>CREW</b>	BC TE	
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	17.8	<b>AIR TEMP</b>	18.0		<b>ICE CONDITIONS</b>		none		
LOGGER CONDITIONS												
<b>WATER DEPTH</b>	100		cm	<b>DISLODGED</b>	no		<b>REASON</b>					
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet		<b>IF DRY, HEIGHT ABOVE WATER</b>			cm	<b>TETHER TYPE</b>	spruce	
COMMENTS												
RPL# 29												
download OK												
<b>SITE ID</b>	beatMS2		<b>LOCATION</b>			Beaton R mainstem			<b>BANK</b>	east		
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>			20030828			<b>UTM</b>	663098		6220723
<b>DOWNLOAD DATE</b>	14	Jul	2017	<b>DOWNLOAD TIME</b>			12:56			<b>CREW</b>	BC TE	
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	17.8	<b>AIR TEMP</b>	18.0		<b>ICE CONDITIONS</b>		none		
LOGGER CONDITIONS												
<b>WATER DEPTH</b>	100		cm	<b>DISLODGED</b>	no		<b>REASON</b>					
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet		<b>IF DRY, HEIGHT ABOVE WATER</b>			cm	<b>TETHER TYPE</b>	spruce	
COMMENTS												
RPL# 32												
download 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 #	10893059			UTM	11	316873	6225211
DOWNLOAD DATE	15	Jul	2017	DOWNLOAD TIME	10:19		CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	15.1	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	birch	
COMMENTS										
download OK										
stainless cable OK										
RPL#26										
SITE ID	pouceUP2		LOCATION	Peace R mainstem u/s of Pouce Coupe R			BANK	north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068			UTM	11	316146	6226036
DOWNLOAD DATE	15	Jul	2017	DOWNLOAD TIME	10:32		CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	14.9	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	spruce	
COMMENTS										
download OK										
Stainless cable OK										
RPL#27										
cable buried in sediment but logger was not										
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 #	10676155			UTM	548841	6209022		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	11:37			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.6	AIR TEMP	5	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											
RPL#19											
SITE ID	gmsUP2		LOCATION	GMS Forebay			BANK				
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676180			UTM	548841	6209022		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	11:40			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.6	AIR TEMP	5	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	1000	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											
RPL#20											
SITE ID	gmsDN2		LOCATION	GMS Tailrace RDB			BANK		north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669739			UTM	548828	6207836		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	12:12			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	9.8	AIR TEMP	10	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											
Back-up logger gmsDN2-BU 2038614 in same capsule 12:13											
both down loads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger-Rpl #11, SN 10669739											
water very low at tailrace											
SITE ID	gmsDN1		LOCATION	GMS Tailrace LDB			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635063			UTM	548881	6207761		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	12:28			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.6	AIR TEMP	10	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											
Back-up logger gmsDN1-BU 2038613 in same capsule 12:29											
both down loads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger gmsDN1-RPL#7											
water very low at tailrace											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	pcnUP1	LOCATION	PCN Forebay			BANK			north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635067			UTM	562684	6204075		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	10:24			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.2	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											
down load OK											
all stainless steel cable OK											
Rpl #10											
SITE ID	pcnDN2	LOCATION	PCN Tailrace			BANK			north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10156317			UTM	562803	6204854		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	10:04			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	1.0		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											
down load OK											
all stainless steel cable ok											
RPL# 2											
SITE ID	pcnDN2_BU	LOCATION	PCN Tailrace			BANK			north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635061			UTM	562803	6204854		
DOWNLOAD DATE	20	Oct	2017	DOWNLOAD TIME	10:04			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	10.4	AIR TEMP	1.0		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											
down load OK											
all stainless steel cable OK											
Anchored to same rock as pcnDN2											
RPL #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 #	10156319			UTM	595569	6230541			
DOWNLOAD DATE	27	Oct	2017	DOWNLOAD TIME	11:51	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	9.4	AIR TEMP	8	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	20	cm	DISLODGED		yes	REASON	tampered				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	spruce	
COMMENTS											
pulled partially to shore by unknown persons; likely exposed at lower water levels											
download OK											
cable OK											
logger RPL#1 replaced with RPL# 33 SN20030829											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK		south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094			
DOWNLOAD DATE	27	Oct	2017	DOWNLOAD TIME	12:03	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	9.4	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	spruce tree	
COMMENTS											
logger label "halfUP1R"											
download OK											
cable OK											
logger halfUP1R replaced with RPL #34, SN 20097151											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	27	Oct	2017	DOWNLOAD TIME	12:27	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	6.7	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	balsam pop	
COMMENTS											
download OK											
stainless steel cable OK											
Rpl #15											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	27	Oct	2017	DOWNLOAD TIME	12:23	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	6.7	AIR TEMP	8	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	40	cm	DISLODGED		yes	REASON		debris			
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop	
COMMENTS											
logger label "halfDN2_BU"											
stainless steel cable OK											
download OK											
swung to shore by debris but still wet at high flows											

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	Oct	2017	DOWNLOAD TIME	12:38			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	9.3	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no			REASON				
BURIED	yes	FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce		
COMMENTS											
RPL#16											
download OK											
covered with sediment											
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349		
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	12:45			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	9.5	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	170	cm	DISLODGED	no			REASON				
BURIED	no	FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder		
COMMENTS											
RPL# 21											
stainless cable OK											
download OK											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229275		
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	12:14			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	9.6	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											
RPL#18											
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146			UTM	630776	6229287		
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	12:21			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	9.6	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											
Rpl # 17											

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 #	10635062			UTM	641653	6225304				
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	13:28			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	9.6	AIR TEMP	5.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	150	cm	DISLODGED	no	REASON							
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop				
COMMENTS												
download OK												
Stainless steel cable OK												
RPL#6												
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641034	6225372				
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	13:20			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	9.1	AIR TEMP	16.0			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												
Rpl # 14												
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	16	Oct	2017	DOWNLOAD TIME	14:01			CREW	BC TE			
TEST RECORDER TYPE	merc	WATER TEMP	8.2	AIR TEMP	8.0			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												
RPL# 25												
download OK												
installed new stainless steel cable												
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK		south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802				
DOWNLOAD DATE	16	Oct	2017	DOWNLOAD TIME	14:11			CREW	BC TE			
TEST RECORDER TYPE	merc	WATER TEMP	8.2	AIR TEMP	8.0			ICE CONDITIONS	none			
LOGGER CONDITIONS												
WATER DEPTH	40	cm	DISLODGED	yes	REASON			debris				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder				
COMMENTS												
download OK												
swung to shore but still wetted under higher flows												
Stainless steel cable OK												

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
<b>SITE ID</b>	PineMS1		<b>LOCATION</b>	Pine River mainstem			<b>BANK</b>			north	
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10893069			<b>UTM</b>	641762		6223549	
<b>DOWNLOAD DATE</b>	19	Oct	2017	<b>DOWNLOAD TIME</b>	13:38			<b>CREW</b>	BC TE		
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	3.8	<b>AIR TEMP</b>	5.0	<b>ICE CONDITIONS</b>	none			
LOGGER CONDITIONS											
<b>WATER DEPTH</b>	150	cm	<b>DISLODGED</b>	no	<b>REASON</b>						
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet	<b>IF DRY, HEIGHT ABOVE WATER</b>		cm	<b>TETHER TYPE</b>	steel piling		
COMMENTS											
down load OK											
RPL# 28											
stainless cable OK											
<b>SITE ID</b>	PineMS2		<b>LOCATION</b>	Pine River mainstem			<b>BANK</b>	south			
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10887856			<b>UTM</b>	641677		6223590	
<b>DOWNLOAD DATE</b>	19	Oct	2017	<b>DOWNLOAD TIME</b>	13:46			<b>CREW</b>	BC TE		
<b>TEST RECORDER TYPE</b>	YSI		<b>WATER TEMP</b>	3.8	<b>AIR TEMP</b>	5.0	<b>ICE CONDITIONS</b>	none			
LOGGER CONDITIONS											
<b>WATER DEPTH</b>	100	cm	<b>DISLODGED</b>	yes	<b>REASON</b>		debris				
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet	<b>IF DRY, HEIGHT ABOVE WATER</b>		cm	<b>TETHER TYPE</b>	balsam pop		
COMMENTS											
down load OK											
partially sw ung to shore but submerged, debris accumulated on cable											
RPL#23											
stainless cable OK											
<b>SITE ID</b>	beatMS1		<b>LOCATION</b>	Beaton R mainstem			<b>BANK</b>	east			
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	10930722			<b>UTM</b>	663101		6220759	
<b>DOWNLOAD DATE</b>	16	Oct	2017	<b>DOWNLOAD TIME</b>	10:33			<b>CREW</b>	BC TE		
<b>TEST RECORDER TYPE</b>	merc		<b>WATER TEMP</b>	5.0	<b>AIR TEMP</b>	8.0	<b>ICE CONDITIONS</b>	none			
LOGGER CONDITIONS											
<b>WATER DEPTH</b>	100	cm	<b>DISLODGED</b>	no	<b>REASON</b>						
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet	<b>IF DRY, HEIGHT ABOVE WATER</b>		cm	<b>TETHER TYPE</b>	spruce		
COMMENTS											
RPL# 29											
down load OK											
Peace River high; Beaton back-flooded											
<b>SITE ID</b>	beatMS2		<b>LOCATION</b>	Beaton R mainstem			<b>BANK</b>	east			
<b>LOGGER TYPE</b>	Tidbit		<b>LOGGER SERIAL #</b>	20030828			<b>UTM</b>	663121		6221232	
<b>DOWNLOAD DATE</b>	16	Oct	2017	<b>DOWNLOAD TIME</b>	10:45			<b>CREW</b>	BC TE		
<b>TEST RECORDER TYPE</b>	merc		<b>WATER TEMP</b>	5.0	<b>AIR TEMP</b>	8.0	<b>ICE CONDITIONS</b>	none			
LOGGER CONDITIONS											
<b>WATER DEPTH</b>	100	cm	<b>DISLODGED</b>	no	<b>REASON</b>						
<b>BURIED</b>	no		<b>FUNCTIONAL</b>	wet	<b>IF DRY, HEIGHT ABOVE WATER</b>		cm	<b>TETHER TYPE</b>	spruce		
COMMENTS											
RPL# 32											
down load OK											
Peace River high; Beaton back-flooded											

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 #	10893059			UTM	11	316873	6225211	
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	15:32		CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	7.4	AIR TEMP	5.0	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											
stainless cable OK											
RPL#26											
SITE ID	pouceUP2	LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	north			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068			UTM	11	316146	6226036	
DOWNLOAD DATE	19	Oct	2017	DOWNLOAD TIME	15:48		CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	8.8	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	yes		REASON	debris				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce		
COMMENTS											
download OK											
Stainless cable OK											
RPL#27											
partially swung to shore but in 1m of water											
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 #	10676155			UTM	548841	6209022		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	n/a			CREW	BC TE		
TEST RECORDER TYPE				WATER TEMP		AIR TEMP		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED		REASON						
BURIED			FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel buoy		
COMMENTS											
Not downloaded; ice unsafe to access buoy.											
Next download attempt, April 2018.											
SITE ID	gmsUP2		LOCATION	GMS Forebay			BANK				
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676180			UTM	548841	6209022		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	n/a			CREW	BC TE		
TEST RECORDER TYPE				WATER TEMP		AIR TEMP		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	1000	cm	DISLODGED		REASON						
BURIED			FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	steel buoy		
COMMENTS											
Not downloaded; ice unsafe to access buoy.											
Next download attempt, April 2018.											
SITE ID	gmsDN2		LOCATION	GMS Tailrace RDB			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669739			UTM	548828	6207836		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	12:57			CREW	BC TE		
TEST RECORDER TYPE		YSI		WATER TEMP	1.7	AIR TEMP	-26	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											
Back-up logger gmsDN2-BU 2038614 in same capsule 12:58											
both downloads OK											
cable OK (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger-Rpl #11, SN 10669739											
SITE ID	gmsDN1		LOCATION	GMS Tailrace LDB			BANK			south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635063			UTM	548881	6207761		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	13:22			CREW	BC TE		
TEST RECORDER TYPE		YSI		WATER TEMP	1.7	AIR TEMP	-26	ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	120	cm	DISLODGED	no	REASON						
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	rock		
COMMENTS											
Back-up logger gmsDN1-BU 2038613 in same capsule 13:24											
both downloads OK											
cable OK (stainless steel cable section attached to galvanized cable around rock)											
Primary Logger gmsDN1-RPL#7											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM										
SITE ID	pcnUP1	LOCATION	PCN Forebay			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635067		UTM	562684	6204075		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	10:59		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.1	AIR TEMP	-26.0		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										
all stainless steel cable OK										
RPL #10										
SITE ID	pcnDN2	LOCATION	PCN Tailrace			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10156317		UTM	562803	6204854		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	11:28		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.3	AIR TEMP	-26.0		ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	90	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	rock			
COMMENTS										
download OK										
all stainless steel cable ok										
RPL# 2										
SITE ID	pcnDN2_BU	LOCATION	PCN Tailrace			BANK			north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635061		UTM	562803	6204854		
DOWNLOAD DATE	10	Jan	2018	DOWNLOAD TIME	11:31		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.3	AIR TEMP	-26.0		ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	90	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	rock			
COMMENTS										
download OK										
all stainless steel cable OK										
Anchored to same rock as pcnDN2										
Rpl #9										
SITE ID		LOCATION				BANK				
LOGGER TYPE		LOGGER SERIAL #			UTM					
DOWNLOAD DATE		DOWNLOAD TIME			CREW					
TEST RECORDER TYPE		WATER TEMP		AIR TEMP						
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 Half way River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20030829			UTM	595569	6230541			
DOWNLOAD DATE	3	Jan	2018	DOWNLOAD TIME	14:13	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.9	AIR TEMP	2	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				
COMMENTS											
download OK											
cable OK											
RPL# 33											
SITE ID	halfUP1	LOCATION	u/s of Half way River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	20097151			UTM	595165	6230094			
DOWNLOAD DATE	3	Jan	2018	DOWNLOAD TIME	14:22	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.9	AIR TEMP	2	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											
cable OK											
RPL #34											
SITE ID	halfDN2	LOCATION	d/s of Half way River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	3	Jan	2018	DOWNLOAD TIME	14:41	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.7	AIR TEMP	2	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	150	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											
Rpl #15											
SITE ID	halfDN2_BU	LOCATION	d/s of Half way River			BANK	north				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	3	Jan	2018	DOWNLOAD TIME	14:38	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.7	AIR TEMP	2	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop				
COMMENTS											
logger label "halfDN2_BU"											
stainless steel cable OK											
download 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	4	Jan	2018	DOWNLOAD TIME	11:19			CREW	BC TE	
TEST RECORDER TYPE	merc		WATER TEMP	0.5	AIR TEMP	-5.0		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no			REASON			
BURIED	yes	FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce	
COMMENTS										
RPL#16										
download OK										
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK			south
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349	
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	11:27			CREW	BC TE	
TEST RECORDER TYPE	merc		WATER TEMP	0.5	AIR TEMP	-5.0		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	180	cm	DISLODGED	no			REASON			
BURIED	no	FUNCTIONAL	wet			IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder	
COMMENTS										
RPL# 21										
stainless cable OK										
download OK										
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK			south
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229275	
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	11:46			CREW	BC TE	
TEST RECORDER TYPE	merc		WATER TEMP	0.6	AIR TEMP	-5.0		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										
RPL#18										
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK			south
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676146			UTM	630776	6229287	
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	11:38			CREW	BC TE	
TEST RECORDER TYPE	merc		WATER TEMP	0.6	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										
Rpl # 17										

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 #	10635062			UTM	641653	6225304			
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	12:17	CREW	BC TE				
TEST RECORDER TYPE	YSI	WATER TEMP	0.5	AIR TEMP	-5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	200	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop			
COMMENTS											
download failed											
logger "RPL#6" replaced with logger "halfUP1R" (SN 9767573).											
Stainless steel cable OK											
SITE ID	pineUP1	LOCATION	u/s of Pine River			BANK		south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669747			UTM	641034	6225372			
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	12:08	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.5	AIR TEMP	-5.0	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											
Stainless steel cable OK											
RPL# 14											
SITE ID	pineDN1_BU	LOCATION	d/s of Pine River			BANK		south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10893055			UTM	648362	6222823			
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	12:41	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.3	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											
RPL# 25											
download OK											
installed new stainless steel cable											
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK		south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802			
DOWNLOAD DATE	4	Jan	2018	DOWNLOAD TIME	12:32	CREW	BC TE				
TEST RECORDER TYPE	merc	WATER TEMP	0.3	AIR TEMP	-5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	5	cm	DISLODGED	yes	REASON	ice	debris				
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder			
COMMENTS											
download OK											
swung to shore by debris and ice but still wetted											
Stainless steel cable OK											
logger "pineDN_1" (SN 2226322) replaced Jan 8 with RPL# 1 (SN 10156319) due to drifted time stamp.											

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 #	10893059			UTM	11	316873	6225211	
DOWNLOAD DATE	17	Jan	2018	DOWNLOAD TIME	12:13		CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	0.1	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	birch		
COMMENTS											
download OK											
stainless cable OK											
RPL#26											
SITE ID	pouceUP2	LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	north			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068			UTM	11	316146	6226036	
DOWNLOAD DATE	17	Jan	2018	DOWNLOAD TIME	12:27		CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	0.2	AIR TEMP	-4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	180	cm	DISLODGED	no		REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce		
COMMENTS											
download OK											
Stainless cable OK											
RPL#27											
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											