



Site C Clean Energy Project

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

Temperature Monitoring

Construction Year 2 (2016)

Diversified Environmental Services

August 31, 2017

DIVERSIFIED ENVIRONMENTAL SERVICES

BOX 6263, FORT ST. JOHN, B.C. V1J 4H7 PHONE/FAX (250) 787-9101



BC HYDRO PEACE RIVER BASELINE TEMPERATURE MONITORING

YEAR 8 SUMMARY – APRIL 2016 to March 31, 2017

Date: August 31, 2017

Attention: Dave Hunter
Senior Environmental Coordinator, Site C
BC Hydro
Burnaby, BC

Since 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 (Fig. 1). 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 locations and methods used to deploy, maintain and download temperature loggers at the original WUP monitoring stations and the additional Site C 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

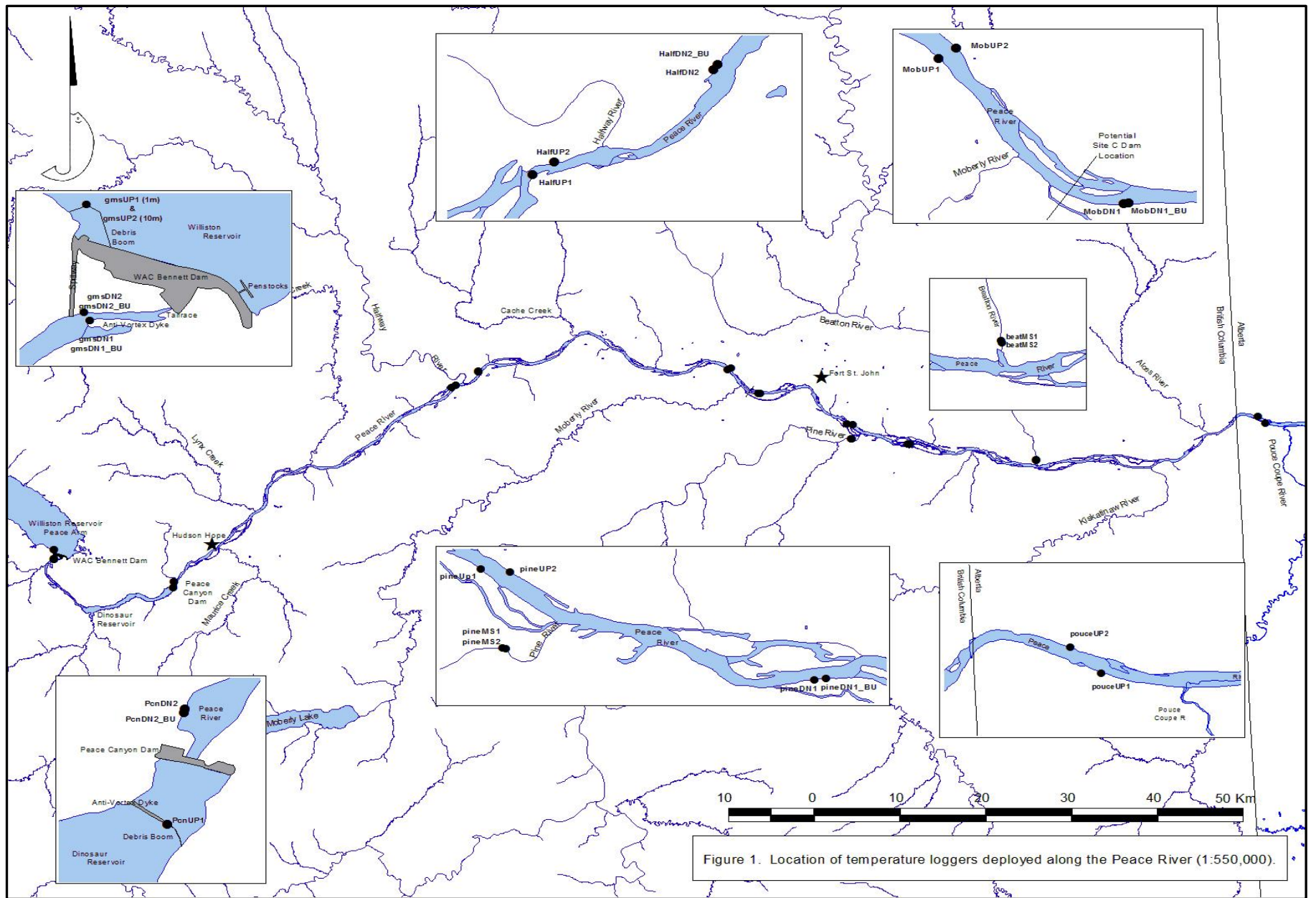


Table 1. Temperature monitoring station location information as of April 30, 2017.

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	9767573	Halfway Confluence - upstream	595165	6230094	south bank; spruce tree
HalfUP2	10156319	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	630776	6229287	south bank; alder
MobDN1BU	10676147	Moberly Confluence - downstream	630875	6229303	south bank; alder
PineUP1	10669747	Pine Confluence - upstream	641034	6225375	south bank; alder
PineUP2	10635062	Pine Confluence - upstream	641653	6225304	north bank; balsam poplar
PineDN1	2225322	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	10930732	Beatton Mainstem - upstream of Peace	663121	6221232	east bank; birch
BeatMS2	10930793	Beatton Mainstem - upstream of Peace	663098	6220723	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

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. 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 using 3.18 mm stainless steel cable.

Temperature data recorded and stored on each logger during 2016/17 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 (within 30 minutes of reference temperature; Appendix I).

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.

Some logistical problems were encountered during Year 8. Occasional stranding of loggers above the waterline during Year 8 was largely associated the accumulation of debris on tether cables during tributary freshet and during flood events in late June and August 2016. Loggers located downstream of the Pine and Moberly river confluences were stranded in late June to early July by debris originating from upstream. The loggers located upstream of the Halfway River (halfUP2) and Moberly River (mobUP2) were pulled ashore and left near or above the high water mark by persons unknown.

During the October 2016 and January 2017 download sessions, 3 data files were corrupted during the download and transfer process. The problem was attributed to an intermittent glitch in Hobo optical shuttle and the unit was replaced.

During the April 2016 download, both loggers suspended from the debris boom buoy in the WAC Bennett Dam forebay were discovered missing. It was believed the tether cable had been pinched and parted by a shifting boom line clevis and the arrangement was modified to prevent similar loss of the replacement loggers. One logger located upstream of the Moberly River (mobUP2) and one located downstream of the Pine River (pineDN1-BU) could not be recovered during the July 2016 download session, which occurred immediately after the major flood event in late June 2016. All 4 loggers were replaced during the July download.

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 2016/17 exhibited a correctable zero error greater than 0.3°C; most calibration errors were typically within the range of 0.2°C.

Several loggers were replaced in Year 8, as they were approaching the end of their predicted lifespan of six years or were recording low voltage readings.

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 tributary features. Download Information Forms completed during each download are provided in Appendix II.

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). The forebay station could not be accessed during the January 2016 download session due to hazardous ice conditions and both loggers were irretrievably lost due to a parted cable prior to the April 2016 download session. As a result, only temperature data spanning April 11 to December 31, 2016 could be recovered. Although seasonal thermal stratification of Williston Reservoir is evident, the relatively small temperature differential between the 2 loggers (mean=0.4°C) suggests the primary thermocline may lie deeper than 10 m. Maximum

temperature differentials up to 6.5°C were recorded during a period of significant daytime surface warming during the last two weeks of July and first two weeks of August, when annual ambient temperatures peaked. Temperature profiles recorded further up the Peace Reach during unrelated work in August 2012 indicated a thermocline at approximately 26 m depth (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 8.

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 November 1 and December 31, 2016 was corrupted by a faulty optical shuttle during the January 4, 2017 download and could not be recovered. Temperature data is available for the remainder of the year (January 1 to October 31).

Both Peace Canyon Tailrace loggers (pcnDN2 and pcnDN2BU) recorded continuous data throughout Year 8. 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, mean differentials of 0.02°C were recorded in winter (December through February) and 0.5°C in summer (June through August). Slight thermal stratification of the Peace Canyon forebay associated with peak ambient temperatures during the last week of June and first week of July and again during the first week of August 2016 was evident.

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 8 (halfUP1 and halfUP2). Data sets from both upstream loggers for the period between October 10 and December 31 were corrupted by a faulty optical shuttle during the January 4, 2017 download and could not be recovered. Logger halfUP1 recorded continuous data for the remainder of the year (January 1 to October 10), however, logger halfUP2 became intermittently stranded during periods of low water between April and October after being pulled partially to shore by curious persons prior to both the July 7 and October 10 download sessions. 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. Both were intermittently exposed during Year 8, resulting in sporadic gaps in water temperature readings. Logger halfDN2BU was swung into shallow water by debris from the Halfway River sometime between July 15 and October 5, 2016 and recorded air temperature during periods of low flow. Logger halfDN2 appeared to have been pulled to shore by persons unknown sometime after the October 10, 2016 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 greater degree of daily and annual variability. Halfway River inputs typically have a cooling effect during the winter period (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 8 (mobUP1 and mobUP2). Logger mobUP1 recorded continuous water temperature data throughout Year 8. Logger mobUP2 was lost between April and July 2016, due to a parted cable, and could not be recovered during the July 7 download attempt. A slight cross-channel differential averaging 0.5°C was recorded between July 7 and August 31, 2016.

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. No water temperature data is available from either logger between January 1 and 27, 2016 as both units were destroyed by Site C construction preparation activities in December 2015; both were replaced on January 27, 2016. Between February and April 2016 both mobDN1 and mobDN1BU were swung to shore by ice and debris and became exposed frequently during low water levels. Seamless data was collected after the April 15, 2016 download.

As in previous years, Peace River temperatures recorded within the influence of the Moberly River (downstream of confluence), were cooler than the 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 8, 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.

Both pineUP1 and pineUP2 loggers recorded continuous hourly data throughout Year 8. No cross-channel differential was noted.

Both Pine downstream loggers (pineDN1 and pineDN1BU) exhibited periodic data gaps as a result of unusually high debris flow from the Pine River during 2016. Logger pineDN1 was partially swung to shore by debris prior to the April 2016 download and was re-tethered in a new location in an attempt to minimize the frequency of debris accumulation on the tether cable. Despite this revision, the logger was dislodged by debris and swung to shallow water again prior to the July and October 2016 and January 2017 downloads. As a result, air temperatures were recorded

during sporadic periods of low water. Logger pineDN1BU was lost to large debris during a flood event in late June 2016 and was replaced on July 13, 2016.

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 Pine River mainstem were initially installed on April 15, 2016 at right (pineMS1) and left (pineMS2) downstream bank locations. A major flood event on June 16-18, 2016 resulted in the loss of logger pineMS1 prior to the July download. The logger was replaced on July 13 and relocated to the opposite bank where it was anchored to a remnant steel piling.

Both Pine River loggers were successfully downloaded on October 13, 2016 but could not be accessed during the January 2017 download event due to heavy ice cover. Data recorded since October 13, 2016 were successfully recovered from both loggers during the April 27, 2017 download. The data suggests that logger pineMS2 was swung to shore and stranded by ice flow on April 15, just prior to the April 27 download. Both loggers are currently located approximately 1.3 km upstream of the confluence with the Peace River.

Beatton River Mainstem

Temperature loggers in the lower Beatton River mainstem (beatMS1 and beatMS2) were initially installed on April 15, 2016 on the left downstream bank. Debris flow associated with the June 16-18, 2016 flood event dislodged both Beatton loggers, stranding beatMS1 above the normal water level. Logger beatMS2 was swung to shore but remained within the wetted perimeter of the river. Both loggers were downloaded on July 7, 2016.

Logger beatMS1 was lost to heavy debris flow in a second flood event in late August 2016 and could not be recovered during the October download event. The logger was replaced and anchored more securely to a large tree further back from the river bank. Logger beatMS2 was also dislodged by debris and found stranded on shore above the water line during the October 13 download event. Data downloaded from beatMS2 on October 13 was corrupted by a faulty optical shuttle, which has since been replaced.

Neither logger beatMS1 nor beatMS2 could be accessed during the January 2017 download event due to heavy ice cover. The anchor cables of both loggers were subsequently parted by moving ice during spring break-up and neither could be located during the April 2017 download event. As a result, only data spanning the April 15 to July 7, 2016 period are available for the Beatton River mainstem.

Both loggers were replaced on April 28, 2017 and their tethers were upgraded to 12.7 mm steel cable. Logger beatMS2 was redeployed at its original location and logger beatMS1 was repositioned further upstream. The Beatton mainstem loggers are currently located approximately 0.6 km and 1.0 km upstream from the confluence with the Peace River. Given the recurring difficulties associated with debris flow and extreme flow fluctuations at the Beatton River mainstem sites, more frequent inspections and downloads are planned for 2017/18.

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. No logistical issues were encountered at either site and both loggers were successfully downloaded on July 6 and October 12, 2016 and January 18 and April 15, 2017. 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.

APPENDIX I
REFERENCE TEMPERATURE VALUES

Appendix I. Reference temperature values and corresponding logger fix values recorded during download events in Year 8, January 2016 to January 2017.

Logger ID	Date	Fix Temp	Ref Temp	Error
gmsUP1 (SN 10676155)	11-Apr-16	2.1	1.9	0.2
	15-Jul-16	17.8	17.8	0.0
	31-Oct-16	8.1	8.0	0.1
	4-Jan-17	1.7	1.6	0.1
gmsUP2 (SN 10666160)	11-Apr-16	2.1	1.9	0.2
	15-Jul-16	17.6	17.5	0.1
	31-Oct-16	8.1	8.0	0.1
	4-Jan-17	1.7	1.6	0.1
gmsDN1 (SN 10635063)	11-Apr-16	2.0	1.9	0.1
	15-Jul-16	10.8	10.9	-0.1
	31-Oct-16	8.0	8.1	-0.1
	4-Jan-17	1.8	1.9	-0.1
gmsDN1_BU (SN 2038613)	11-Apr-16	2.1	1.9	0.2
	15-Jul-16	10.9	10.9	0.0
	31-Oct-16	8.1	8.1	0.0
	4-Jan-17	1.9	1.9	0.0
gmsDN2 (SN 10669739)	11-Apr-16	1.9	1.9	0.0
	15-Jul-16	6.5	6.7	-0.2
	31-Oct-16	7.1	7.0	0.1
	4-Jan-17	1.8	1.9	-0.1
gmsDN2_BU (SN 2038614)	11-Apr-16	2.1	1.9	0.2
	15-Jul-16	6.7	6.9	-0.2
	31-Oct-16	7.3	7.0	0.3
	4-Jan-17	2.0	1.9	0.1
pcnUP1 (SN 10635067)	11-Apr-16	2.3	2.1	0.2
	15-Jul-16	9.2	9.5	-0.3
	31-Oct-16	7.7	7.9	-0.2
pcnDN2 (SN 10156317)	11-Apr-16	2.2	2.1	0.1
	15-Jul-16	9.0	9.0	0.0
	31-Oct-16	7.8	7.7	0.1
	4-Jan-17	2.0	2.0	0.0
pcnDN2_BU (SN 10635061)	11-Apr-16	2.2	2.1	0.1
	15-Jul-16	9.0	9.0	0.0
	31-Oct-16	7.8	7.7	0.1
	4-Jan-17	2.0	2.0	0.0
halfUP1 (SN 9767573)	21-Apr-16	2.6	2.5	0.1
	7-Jul-16	12.3	12.4	-0.1
	10-Oct-16	8.5	8.5	0.0

Appendix II cont. Reference temperature values and corresponding logger fix values recorded during download events in Year 8, January 2016 to January 2017.

Logger ID	Date	Logger Temp	Reference Temp	Error
halfUP2 (SN 10156319)	21-Apr-16	2.7	2.7	0.0
	7-Jul-16	12.5	12.4	0.1
	10-Oct-16	8.5	8.5	0.0
halfDN2 (SN 10669748)	21-Apr-16	5.8	5.6	0.2
	7-Jul-16	15.2	15.2	0.0
	10-Oct-16	6.5	6.4	0.2
	5-Jan-17	1.3	1.3	0.0
halfDN2_BU (SN 10156314)	21-Apr-16	5.7	5.6	0.1
	7-Jul-16	15.2	15.2	0.0
	10-Oct-16	6.5	6.4	0.2
	5-Jan-17	1.3	1.3	0.0
mobUP1 (SN 10339754)	15-Apr-16	2.8	2.7	0.1
mobUP1 (SN 10887852)	7-Jul-16	12.1	12.1	0.0
	13-Oct-16	8.5	8.2	0.3
	17-Jan-17	1.9	1.8	0.1
mobUP2 (SN 10669741)	15-Apr-16	2.6	2.6	0.0
mobUP2 (SN 10669754)	13-Oct-16	8.0	7.8	0.2
	17-Jan-17	1.8	1.8	0.0
mobDN1 (SN 10676146)	7-Jul-16	14.1	13.9	0.2
	13-Oct-16	7.6	7.5	0.1
	17-Jan-17	1.9	1.8	0.1
mobDN1_BU (SN 10676147)	7-Jul-16	14.1	14.0	0.1
	13-Oct-16	7.6	7.5	0.1
	17-Jan-17	1.8	1.8	0.0
pineUP1 (SN10669747)	15-Apr-16	3.1	3.3	-0.2
	7-Jul-16	13.5	13.7	-0.2
	13-Oct-16	7.9	7.6	0.3
	17-Jan-17	1.8	1.8	0.0
pineUP2 (SN10635062)	15-Apr-16	3.0	3.0	0.0
	7-Jul-16	13.2	13.1	0.1
	13-Oct-16	8.1	8.0	0.1
	17-Jan-17	1.9	1.8	0.1

Appendix III cont. Reference temperature values and corresponding logger fix values recorded during download events in Year 8, January 2016 to January 2017.

Logger ID	Date	Logger Temp	Reference Temp	Error
pineDN1 (SN 2225322)	15-Apr-16	4.2	4.2	0.0
	7-Jul-16	15.3	15.1	0.2
pineDN1_BU (SN 9762095)	15-Apr-16	4.3	4.2	0.1
pineDN1_BU (SN 10930722)	13-Oct-16	5.6	5.4	0.2
	17-Jan-17	1.6	1.5	0.1
pineMS1 (SN 10893069)	13-Oct-16	1.9	1.6	0.3
	17-Jan-17			
pineMS2 (SN 10887856)	13-Jul-16	17.9	18.0	-0.1
	13-Oct-16	1.9	1.6	0.3
	17-Jan-17			
beatMS1 (SN 10930732)	Unable to establish reference data due to beaching in July 2016 and logger loss in August 2016, not downloaded in Jan 2017.			
beatMS2 (SN 10893055)	7-Jul-16	20.0	19.9	0.1
pouceUP1 (SN 10893059)	6-Jul-16	15.0	15.1	-0.1
	12-Oct-16	7.8	7.8	0.0
	18-Jan-17	1.9	1.8	0.1
pouceUP2 (SN 10893068)	6-Jul-16	14.7	14.9	-0.2
	12-Oct-16	7.7	7.7	0.0
	18-Jan-17	1.9	1.9	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	11	Apr	2016	DOWNLOAD TIME		CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.9	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	steel buoy

COMMENTS

Download OK
 Stainless steel cable OK
 RPL#19

SITE ID	gmsUP2		LOCATION	GMS Forebay		BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676160		UTM	548841	6209022
DOWNLOAD DATE	11	Apr	2016	DOWNLOAD TIME	15:13	CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.9	AIR TEMP	10	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
 RPL#20

SITE ID	gmsDN2		LOCATION	GMS Tailrace RDB		BANK		north
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669739		UTM	548828	6207836
DOWNLOAD DATE	11	Apr	2016	DOWNLOAD TIME		CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.9	AIR TEMP	6	ICE CONDITIONS	none

LOGGER CONDITIONS

WATER DEPTH	160	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 12:40
 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	16	Apr	2015	DOWNLOAD TIME	12:00	CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.9	AIR TEMP	6	ICE CONDITIONS	none

LOGGER CONDITIONS

WATER DEPTH	250	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 12:00
 both downloads OK
 cable ok (stainless steel cable section attached to galvanized cable around rock)
 GMSDN1-RPL#17

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	11	Apr	2016	DOWNLOAD TIME	11:52			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	2.1	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										
all stainless steel cable ok										
Rpl #10, SN 10635067										
SITE ID	pcnDN2		LOCATION	PCN Tailrace			BANK			north
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10156317			UTM	562803	6204854	
DOWNLOAD DATE	11	Apr	2016	DOWNLOAD TIME	10:41			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	2.1	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	rock	
COMMENTS										
download OK										
all stainless steel cable ok										
SITE ID	pcnDN2_BU		LOCATION	PCN Tailrace			BANK			north
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10635061			UTM	562803	6204854	
DOWNLOAD DATE	11	Apr	2016	DOWNLOAD TIME	10:42			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	2.1	AIR TEMP	6.0		ICE CONDITIONS	none	
LOGGER CONDITIONS										
WATER DEPTH	160	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, SN10635061										
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	21	Apr	2016	DOWNLOAD TIME	9:05	CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	2.7	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										
download OK (initially would not download but did a few minutes later, redeployed)										
cable OK										
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094		
DOWNLOAD DATE	21	Apr	2016	DOWNLOAD TIME	9:15	CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	2.5	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										
download OK										
cable OK										
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK		north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598198	6232169		
DOWNLOAD DATE	21	Apr	2016	DOWNLOAD TIME	9:33	CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	5.6	AIR TEMP	5	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	30	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, SN 10669748										
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK		north		
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144		
DOWNLOAD DATE	21	Apr	2016	DOWNLOAD TIME	9:28	CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	5.6	AIR TEMP	5	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	60-80	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										

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 #	10669741			UTM	627501	6232563		
DOWNLOAD DATE	15	Apr	2016	DOWNLOAD TIME	9:34			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	2.6	AIR TEMP	4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	300	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	spruce			
COMMENTS											
dow nload Ok											
stainless steel cable OK											
Rpl #12, SN 10669741											
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	1006975			UTM	627158	6232349		
DOWNLOAD DATE	15	Apr	2016	DOWNLOAD TIME	9:45			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	2.7	AIR TEMP	4.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	60	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder			
COMMENTS											
RPL#16-1006975 failed to dow nload in field but dow nloaded fine in office later											
replaced w ith RPL#21-10887852											
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229275		
DOWNLOAD DATE	15	Apr	2016	DOWNLOAD TIME	10:21			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	2.4	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED	yes	REASON		ice	debris			
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder		
COMMENTS											
dow nload OK											
sw ung to shore by ice and debris											
RPL#18											
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669746			UTM	630776	6229287		
DOWNLOAD DATE	15	Apr	2016	DOWNLOAD TIME	10:10			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	2.4	AIR TEMP	5.0	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	spruce		
COMMENTS											
pulled to shore by ice and debris											
dow nload OK											
Rpl # 17, SN 10669746											

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	15	Apr	2016	DOWNLOAD TIME	11:00			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	3.0	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											
down load 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	15	Apr	2016	DOWNLOAD TIME	10:50			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	3.5	AIR TEMP	5.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	160	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder				
COMMENTS											
down load OK											
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 #	9762095			UTM	648362	6222823			
DOWNLOAD DATE	18	Apr	2015	DOWNLOAD TIME	12:05			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	4.2	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	alder				
COMMENTS											
down load OK											
Stainless steel cable OK											
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802			
DOWNLOAD DATE	15	Apr	2016	DOWNLOAD TIME	11:55			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	4.2	AIR TEMP	6.0	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	alder				
COMMENTS											
down load OK											
partially sw ung to shore but submerged											
Stainless steel cable OK											

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	15	Jul	2016	DOWNLOAD TIME			10:58			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	17.8	AIR TEMP	23	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											
RPL#19											
SITE ID	gmsUP2		LOCATION			GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10676160			UTM	548841	6209022
DOWNLOAD DATE	15	Jul	2016	DOWNLOAD TIME			10:56			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	17.5	AIR TEMP	23	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											
RPL#20											
SITE ID	gmsDN2		LOCATION			GMS Tailrace RDB			BANK		north
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10669739			UTM	548828	6207836
DOWNLOAD DATE	15	Jul	2016	DOWNLOAD TIME			11:52			CREW	BC TE
TEST RECORDER TYPE	merc		WATER TEMP	6.9	AIR TEMP	18	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 11:52											
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	15	Jul	2016	DOWNLOAD TIME			12:00			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	10.9	AIR TEMP	20	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 12:12											
both downloads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
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	15	Jul	2016	DOWNLOAD TIME			9:26			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	9.8	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	log boom		
COMMENTS											
down load OK											
all stainless steel cable ok											
Rpl #10, SN 10635067											
SITE ID	pcnDN2		LOCATION			PCN Tailrace			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10156317			UTM	562803	6204854
DOWNLOAD DATE	15	Jul	2016	DOWNLOAD TIME			9:43			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	9.0	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	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	15	Jul	2016	DOWNLOAD TIME			9:49			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	9.0	AIR TEMP	18.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	160	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, SN10635061											
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	7	Jul	2016	DOWNLOAD TIME	17:19			CREW	BC DC		
TEST RECORDER TYPE	YSI	WATER TEMP	12.4	AIR TEMP	15			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	spruce				
COMMENTS											
download OK											
cable OK											
RPL#1											
pulled to shore and coiled in a pile											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094			
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	17:32			CREW	BC DC		
TEST RECORDER TYPE	YSI	WATER TEMP	17.4	AIR TEMP	15			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											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	18:00			CREW	BC DC		
TEST RECORDER TYPE	YSI	WATER TEMP	15.9	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	balsam pop				
COMMENTS											
download failed on Jul 7, 2016, redeployed and successfully downloaded on July 9, 2016 at 16:53, 15.3C H2O											
stainless steel cable OK											
Rpl #15, SN 10669748											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	7	July	2016	DOWNLOAD TIME	17:50			CREW	BC Dc		
TEST RECORDER TYPE	YSI	WATER TEMP	15.9	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	balsam pop				
COMMENTS											
download failed on Jul 7, 2016, redeployed and successfully downloaded on July 9, 2016 at 16:51, 15.3C H2O											
stainless steel cable 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 #	10669741			UTM	627501	6232563	
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	9:20			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	12.8	AIR TEMP	15.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH			cm	DISLODGED		yes	REASON			unk
BURIED			FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	spruce	
COMMENTS										
logger gone from cable - no sign of debris, maybe failed clamp										
new logger RPL#16 SN 10669754 deployed										
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349	
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	9:36			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	12.1	AIR TEMP	15.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED		no	REASON				
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder	
COMMENTS										
RPL#21-10887852 (replaced RPL#16 April 2016)										
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229275	
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	8:48			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	14.0	AIR TEMP	15.0	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	alder	
COMMENTS										
download OK										
partially submerged to shore by debris										
RPL#18										
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669746			UTM	630776	6229287	
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	10:10			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	13.9	AIR TEMP	15.0	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	
COMMENTS										
download OK										
Rpl # 17, SN 10669746										

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	7	Jul	2016	DOWNLOAD TIME	10:15		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	13.1	AIR TEMP	15.0	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 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	7	Jul	2016	DOWNLOAD TIME	10:15		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	13.9	AIR TEMP	15.0	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											
download OK											
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 #	10930722			UTM	648362	6222823			
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	11:30		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	14.8	AIR TEMP	20.0	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											
logger lost in June 2016 flood, replaced with RPL#29											
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	7	Jul	2016	DOWNLOAD TIME	12:33		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	15.1	AIR TEMP		ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	50	cm	DISLODGED	yes	REASON	debris					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder				
COMMENTS											
download OK											
partially swung to shore but submerged											
Stainless steel cable OK											

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	15	Jul	2016	DOWNLOAD TIME			10:58			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	17.8	AIR TEMP	23	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											
RPL#19											
SITE ID	gmsUP2		LOCATION			GMS Forebay			BANK		
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10676160			UTM	548841	6209022
DOWNLOAD DATE	15	Jul	2016	DOWNLOAD TIME			10:56			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	17.5	AIR TEMP	23	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											
RPL#20											
SITE ID	gmsDN2		LOCATION			GMS Tailrace RDB			BANK		north
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10669739			UTM	548828	6207836
DOWNLOAD DATE	31	Oct	2016	DOWNLOAD TIME			11:32			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	7	AIR TEMP	-3	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 gmsDN2-BU 2038614 in same capsule 11:33											
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	31	Oct	2016	DOWNLOAD TIME			11:45			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	8.1	AIR TEMP	-3	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 11:46											
both downloads OK											
cable ok (stainless steel cable section attached to galvanized cable around rock)											
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	31	Oct	2016	DOWNLOAD TIME			10:39			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	8.1	AIR TEMP	-2.0		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, SN 10635067											
SITE ID	pcnDN2		LOCATION			PCN Tailrace			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10156317			UTM	562803	6204854
DOWNLOAD DATE	31	Oct	2016	DOWNLOAD TIME			10:16			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	7.7	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											
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	31	Oct	2016	DOWNLOAD TIME			10:21			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	7.7	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											
all stainless steel cable ok											
Anchored to same rock as pcnDN2											
Rpl #9, SN10635061											
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	10	Oct	2016	DOWNLOAD TIME	12:35			CREW	BC SC		
TEST RECORDER TYPE	YSI	WATER TEMP	8.5	AIR TEMP	0			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											
download OK											
cable OK											
RPL#1											
pulled to shore, wet at high flows											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094			
DOWNLOAD DATE	10	Oct	2016	DOWNLOAD TIME	12:50			CREW	BC SC		
TEST RECORDER TYPE	YSI	WATER TEMP	8.5	AIR TEMP	0			ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	300	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce tree				
COMMENTS											
download OK											
cable OK											
halfup1R											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	10	Oct	2016	DOWNLOAD TIME	12:09			CREW	BC SC		
TEST RECORDER TYPE	YSI	WATER TEMP	6.4	AIR TEMP	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	balsampop				
COMMENTS											
stainless steel cable OK											
Rpl #15, SN 10669748											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	10	Oct	2016	DOWNLOAD TIME	12:20			CREW	BC SC		
TEST RECORDER TYPE	YSI	WATER TEMP	6.4	AIR TEMP	0			ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	60	cm	DISLODGED	yes	REASON	debris					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsampop				
COMMENTS											
download ok											
stainless steel cable OK											
partially swung to shore by debris, 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	13	Oct	2016	DOWNLOAD TIME			12:29			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	7.8	AIR TEMP	-3.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no		REASON			unk		
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	spruce
COMMENTS											
logger RPL#16 SN 10669754 deployed in July											
download ok											
anchor needs upgrade											
SITE ID	mobUP1		LOCATION			u/s of Moberly River			BANK	south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10887852			UTM	627158	6232349
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME			12:43			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	8.2	AIR TEMP	-3.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	160	cm	DISLODGED	no		REASON					
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder
COMMENTS											
RPL#21-10887852 (replaced RPL#16 April 2016)											
download ok											
anchor needs upgrade											
SITE ID	mobDN1_BU		LOCATION			d/s of Moberly River			BANK	south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10676147			UTM	630875	6229275
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME			13:02			CREW	BC TE
TEST RECORDER TYPE	Merc		WATER TEMP	7.6	AIR TEMP	-3.0		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											
download OK											
RPL#18											
SITE ID	mobDN1		LOCATION			d/s of Moberly River			BANK	south	
LOGGER TYPE	Tidbit		LOGGER SERIAL #			10669746			UTM	630776	6229287
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME			12:56			CREW	BC TE
TEST RECORDER TYPE	Merc		WATER TEMP	7.5	AIR TEMP	-3.0		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
COMMENTS											
download OK											
Rpl # 17, SN 10669746											

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	13	Oct	2016	DOWNLOAD TIME	13:25	CREW	BC TE			
TEST RECORDER TYPE	Merc	WATER TEMP	8.0	AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	300	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	balsam pop		
COMMENTS										
dow nload 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	13	Oct	2016	DOWNLOAD TIME	13:25	CREW	BC TE			
TEST RECORDER TYPE	Merc	WATER TEMP	7.6	AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	160	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder		
COMMENTS										
dow nload OK										
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 #	10930722			UTM	648362	6222823		
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME	14:22	CREW	BC TE			
TEST RECORDER TYPE	Merc	WATER TEMP	5.4	AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	160	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder		
COMMENTS										
RPL#29										
dow nload ok										
new stainless steel cable										
needs anchor upgrade										
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802		
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME	14:08	CREW	BC TE			
TEST RECORDER TYPE	Merc	WATER TEMP	5.4	AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH		cm	DISLODGED	yes	REASON	debris				
BURIED	no	FUNCTIONAL		dry	IF DRY, HEIGHT ABOVE WATER		cm	TETHER TYPE	alder	
COMMENTS										
dow nload OK										
sw ung to shore and dry										
Stainless steel cable OK										
needs anchor upgrade										

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	4	Jan	2017	DOWNLOAD TIME	11:34			CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	1.6	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												
RPL#19												
SITE ID	gmsUP2		LOCATION	GMS Forebay			BANK					
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676160			UTM	548841	6209022			
DOWNLOAD DATE	4	Jan	2017	DOWNLOAD TIME	11:33			CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	1.6	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												
RPL#20												
SITE ID	gmsDN2		LOCATION	GMS Tailrace RDB			BANK		north			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669739			UTM	548828	6207836			
DOWNLOAD DATE	4	Jan	2017	DOWNLOAD TIME	10:20			CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	7	AIR TEMP	-3	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 gmsDN2-BU 2038614 in same capsule 11:33												
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	4	Jan	2017	DOWNLOAD TIME	10:42			CREW	BC TE			
TEST RECORDER TYPE	YSI		WATER TEMP	1.9	AIR TEMP	-3	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 10:43												
both downloads OK												
cable ok (stainless steel cable section attached to galvanized cable around rock)												
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	4	Jan	2017	DOWNLOAD TIME	15:01			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	1.8	AIR TEMP	-2.0		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, SN 10635067									
SITE ID	pcnDN2		LOCATION	PCN Tailrace			BANK	north	
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10156317			UTM	562803	6204854
DOWNLOAD DATE	4	Jan	2017	DOWNLOAD TIME	14:36			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	2.0	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									
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	4	Jan	2017	DOWNLOAD TIME	14:35			CREW	BC TE
TEST RECORDER TYPE	YSI		WATER TEMP	2.0	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									
down load OK									
all stainless steel cable ok									
Anchored to same rock as pcnDN2									
Rpl #9, SN10635061									
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	5	Jan	2017	DOWNLOAD TIME	10:22		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.7	AIR TEMP	-7		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				
COMMENTS											
download OK											
cable OK											
RPL#1											
SITE ID	halfUP1	LOCATION	u/s of Halfway River			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	9767573			UTM	595165	6230094			
DOWNLOAD DATE	5	Jan	2017	DOWNLOAD TIME			CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.7	AIR TEMP	-7		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											
halfup1R											
SITE ID	halfDN2	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10669748			UTM	598198	6232169			
DOWNLOAD DATE	5	Jan	2017	DOWNLOAD TIME	9:56		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.3	AIR TEMP	-7		ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED	yes	REASON	tampered					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop				
COMMENTS											
stainless steel cable OK											
Rpl #15, SN 10669748											
pulled to shore by landowner but wet when recovered											
water very high											
SITE ID	halfDN2_BU	LOCATION	d/s of Halfway River			BANK		north			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10156314			UTM	598179	6263144			
DOWNLOAD DATE	5	Jan	2017	DOWNLOAD TIME	10:04		CREW	BC TE			
TEST RECORDER TYPE	YSI	WATER TEMP	1.3	AIR TEMP	-7		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											

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	17	Jan	2017	DOWNLOAD TIME	11:45			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.8	AIR TEMP	6.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	300	cm	DISLODGED	no	REASON					unk
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	spruce
COMMENTS										
logger RPL#16 SN 10669754 deployed in July										
down load ok										
SITE ID	mobUP1		LOCATION	u/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887852			UTM	627158	6232349	
DOWNLOAD DATE	17	Jan	2017	DOWNLOAD TIME	11:52			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.8	AIR TEMP	6.0	ICE CONDITIONS	none		
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no		FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER			cm	TETHER TYPE	alder
COMMENTS										
RPL#21-10887852 (replaced RPL#16 April 2016)										
down load ok										
SITE ID	mobDN1_BU		LOCATION	d/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10676147			UTM	630875	6229275	
DOWNLOAD DATE	17	Jan	2017	DOWNLOAD TIME	12:15			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.8	AIR TEMP	6.0	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	alder
COMMENTS										
down load OK										
sw ung to shore by debris (grass and debris) on cable, still w et w hen recovered										
RPL#18										
SITE ID	mobDN1		LOCATION	d/s of Moberly River			BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10669746			UTM	630776	6229287	
DOWNLOAD DATE	17	Jan	2017	DOWNLOAD TIME	12:05			CREW	BC TE	
TEST RECORDER TYPE	YSI		WATER TEMP	1.8	AIR TEMP	6.0	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
COMMENTS										
shuttle only blinked once, then had to repeat down load, "down load OK"										
Rpl # 17, SN 10669746										

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	17	Jan	2017	DOWNLOAD TIME	12:51		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.8	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	300	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop			
COMMENTS										
dow nload 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	17	Jan	2017	DOWNLOAD TIME	12:44		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.8	AIR TEMP	5.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	250	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
dow nload OK										
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 #	10930722			UTM	648362	6222823		
DOWNLOAD DATE	17	Jan-17	2016	DOWNLOAD TIME	13:21		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.5	AIR TEMP	6.0	ICE CONDITIONS	none			
LOGGER CONDITIONS										
WATER DEPTH	200	cm	DISLODGED	no	REASON					
BURIED	no	FUNCTIONAL	wet	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	alder			
COMMENTS										
RPL#29										
dow nload failed, memory full, taken to office and dow nloaded, changed to RPL#25 SN 10893055										
new stainless steel cable										
needs anchor upgrade										
SITE ID	pineDN1	LOCATION	d/s of Pine River			BANK	south			
LOGGER TYPE	Tidbit	LOGGER SERIAL #	2226322			UTM	648101	6222802		
DOWNLOAD DATE	17	Jan	2017	DOWNLOAD TIME	13:08		CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	1.5	AIR TEMP	6.0	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	alder			
COMMENTS										
not dow nloaded, "full shuttle memory"										
sw ung to shore still wet										
Stainless steel cable OK										
needs anchor upgrade										

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	7	Jul	2016	DOWNLOAD TIME	10:05			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	18.5	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	steel piling		
COMMENTS											
logger (RPL#22) lost during June 2016 floods, replaced with RPL#28											
all new stainless cable											
SITE ID	PineMS2		LOCATION	Pine River mainstem			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887856			UTM	641677		6223590	
DOWNLOAD DATE	13	Jul	2016	DOWNLOAD TIME	9:44			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	18.5	AIR TEMP	20.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	100	cm	DISLODGED	yes		REASON	debris				
BURIED	yes		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop		
COMMENTS											
download ok											
bank eroded and slumped onto cable and logger											
partially swung to shore but submerged											
RPL#23											
stainless cable ok											
SITE ID	beatMS1		LOCATION	Beaton R mainstem			BANK	east			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893024			UTM	663101		6220759	
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	11:02			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	19.9	AIR TEMP	15.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED			REASON	debris				
BURIED	no		FUNCTIONAL	dry		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	wolf willow		
COMMENTS											
RPL#24											
download ok											
swung to shore, high and dry											
SITE ID	beatMS2		LOCATION	Beaton R mainstem			BANK	east			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893055			UTM	663098		6220723	
DOWNLOAD DATE	7	Jul	2016	DOWNLOAD TIME	11:37			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP	19.9	AIR TEMP	15.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	70	cm	DISLODGED	yes		REASON	debris				
BURIED	no		FUNCTIONAL	wet		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	wolf willow		
COMMENTS											
RPL#25											
download ok											
partially swung to shore											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM															
SITE ID		pouceMS1		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		south	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10893059				UTM		11 316873 6225211	
DOWNLOAD DATE		7 Jul 2016		DOWNLOAD TIME				12:22				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		15.1		AIR TEMP		21.0		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															
stainless cable ok															
RPL#26															
SITE ID		pouceMS2		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		north	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10893068				UTM		11 316146 6226036	
DOWNLOAD DATE		7 Jul 2016		DOWNLOAD TIME				12:37				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		14.9		AIR TEMP		21.0		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	
COMMENTS															
download ok															
Stainless cable ok, buried in sediment															
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	13	Oct	2016	DOWNLOAD TIME	13:42			CREW	BC TE		
TEST RECORDER TYPE	Merc		WATER TEMP	1.6	AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	150	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	w et	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	steel piling				
COMMENTS											
RPL#28 (replaced RPL#22)											
dow nload ok											
all new stainless cable, needs anchor upgrade											
SITE ID	PineMS2		LOCATION	Pine River mainstem			BANK	south			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10887856			UTM	641677		6223590	
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME	13:51			CREW	BC TE		
TEST RECORDER TYPE	Merc		WATER TEMP	1.6	AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH	180	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	w et	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	balsam pop				
COMMENTS											
dow nload ok											
RPL#23											
stainless cable ok											
SITE ID	beatMS1		LOCATION	Beaton R mainstem			BANK	east			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893024			UTM	663101		6220759	
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME				CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP		AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED		REASON	debris					
BURIED	no	FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	w olf willow				
COMMENTS											
logger and cable gone											
SITE ID	beatMS2		LOCATION	Beaton R mainstem			BANK	east			
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893055			UTM	663098		6220723	
DOWNLOAD DATE	13	Oct	2016	DOWNLOAD TIME	15:04			CREW	BC TE		
TEST RECORDER TYPE	YSI		WATER TEMP		AIR TEMP	-3.0	ICE CONDITIONS	none			
LOGGER CONDITIONS											
WATER DEPTH		cm	DISLODGED	yes	REASON	debris					
BURIED	no	FUNCTIONAL	dry	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	poplar				
COMMENTS											
RPL#25											
Shuttle indicated that dow nload w as OK in field. Data corrupted once transferred in office.											
sw ung to shore and dry											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM											
SITE ID	pouceMS1		LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	south		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893059				UTM	11	316873	6225211
DOWNLOAD DATE	12	Oct	2016	DOWNLOAD TIME	15:17				CREW	BC TE	
TEST RECORDER TYPE	Merc		WATER TEMP	7.8	AIR TEMP	2.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	200	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	w et	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	birch				
COMMENTS											
dow nload ok											
stainless cable ok											
RPL#26											
SITE ID	pouceMS2		LOCATION	Peace R mainstem u/s of Pouce Coupe R				BANK	north		
LOGGER TYPE	Tidbit		LOGGER SERIAL #	10893068				UTM	11	316146	6226036
DOWNLOAD DATE	12	Oct	2016	DOWNLOAD TIME	15:38				CREW	BC TE	
TEST RECORDER TYPE	Merc		WATER TEMP	7.7	AIR TEMP	2.0		ICE CONDITIONS	none		
LOGGER CONDITIONS											
WATER DEPTH	200	cm	DISLODGED	no	REASON						
BURIED	no	FUNCTIONAL	w et	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce				
COMMENTS											
dow nload ok - how ever it initially failed 1/2 w ay through dow nload											
Stainless cable ok, buried in sediment											
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	w et	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	w et	IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE					
COMMENTS											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM															
SITE ID		pouceMS1		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		south	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10893059				UTM		11 316873 6225211	
DOWNLOAD DATE		18 Jan 2017		DOWNLOAD TIME				11:28				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		1.8		AIR TEMP		1.0		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		birch	
COMMENTS															
down load ok															
stainless cable ok															
RPL#26															
pulled to shore but in 100cm of water															
SITE ID		pouceMS2		LOCATION				Peace R mainstem u/s of Pouce Coupe R				BANK		north	
LOGGER TYPE		Tidbit		LOGGER SERIAL #				10893068				UTM		11 316146 6226036	
DOWNLOAD DATE		18 Jan 2017		DOWNLOAD TIME				11:40				CREW		BC TE	
TEST RECORDER TYPE		YSI		WATER TEMP		1.9		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		spruce	
COMMENTS															
down load ok															
Stainless cable ok, buried in sediment															
RPL#27															
partially pulled to shore but still a long way out															
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	27	April	2017	DOWNLOAD TIME	11:59			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	5.8	AIR TEMP	8.0	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	steel piling				
COMMENTS											
download ok											
rpl#28											
anchor weight gone and replaced											
swung to shore but wet											
SITE ID	PineMS2	LOCATION	Pine River mainstem			BANK	south				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	10887856			UTM	641677	6223590			
DOWNLOAD DATE	27	April	2017	DOWNLOAD TIME				CREW			
TEST RECORDER TYPE	YSI	WATER TEMP	5.8	AIR TEMP	8.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED	yes	REASON	ice					
BURIED	no	FUNCTIONAL	dry	IF DRY, HEIGHT ABOVE WATER	10	cm	TETHER TYPE	balsam pop			
COMMENTS											
download ok											
high and dry just above water											
RPL#23											
SITE ID	beatMS1	LOCATION	Beaton R mainstem			BANK	east				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	see below			UTM	663101	6220759			
DOWNLOAD DATE	28	April	2017	DOWNLOAD TIME	11:56			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	5.4	AIR TEMP	10.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED	yes	REASON	ice					
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	spruce				
COMMENTS											
logger missing on April 28, 2017 (RPL#24, 10930732)											
replaced with RPL#29 (SN 10930722)											
installed heavier cable											
used 2 anchor plates											
SITE ID	beatMS2	LOCATION	Beaton R mainstem			BANK	east				
LOGGER TYPE	Tidbit	LOGGER SERIAL #	see below			UTM	663098	6220723			
DOWNLOAD DATE	28	Jan	2017	DOWNLOAD TIME	12:16			CREW	BC TE		
TEST RECORDER TYPE	YSI	WATER TEMP	5.4	AIR TEMP	10.0	ICE CONDITIONS	none				
LOGGER CONDITIONS											
WATER DEPTH	-	cm	DISLODGED	yes	REASON	ice					
BURIED		FUNCTIONAL		IF DRY, HEIGHT ABOVE WATER	cm	TETHER TYPE	birch				
COMMENTS											
Logger RPL#31 (SN 10930793) gone											
replaced with RPL#32 (SN 20030828)											
moved u/s to new location to 10.663121.6221232)											
used 1/2" cable and 2 plates											

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM															
SITE ID		pouceMS1		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 April 2017		DOWNLOAD TIME				15:32				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															
down load ok															
stainless cable ok															
RPL#26															
SITE ID		pouceMS2		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 April 2017		DOWNLOAD TIME				15:42				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															
down load ok															
Stainless cable ok, buried in sediment															
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															