

Peace River Project Water Use Plan

Peace River Baseline TDGP/Temperature

Implementation Year 4

Reference: GMSWORKS-2

Study Period: January 2012 to December 2012

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June 30, 2013

PEACE RIVER WATER USE PLAN IMPLEMENTATION PROGRAM

PEACE RIVER BASELINE TDGP/TEMPERATURE GMSWorks-2 YEAR 4 MONITORING PROGRAM - INTERIM REPORT January 2012 to December 2012

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JUNE 30, 2013

EXECUTIVE SUMMARY

Long-term monitoring of baseline water temperature and total dissolved gas pressure (TDGP) in the vicinity of the WAC Bennett and Peace Canyon dams is an essential component of the Peace Spill Protocol and the Peace River Flood Pulse Plan as set out by the Peace Water Use Plan Committee and the Peace Water Use Plan (WUP; BC Hydro 2010). Data collected through the monitoring of these parameters will be used to help assess and quantify the environmental effects of spills, as well as to provide information on the temperature regime of the Peace River under normal operating conditions and the influence of reservoir operations on downstream temperature. Long-term baseline temperature data will also be available for use in other projects and monitoring programs within and outside of the Peace WUP. This report summarizes data collection and maintenance activities conducted at 18 monitoring sites located between the WAC Bennett Dam forebay (Williston Reservoir) and a point approximately 6.5 km downstream of the confluence of the Pine and Peace rivers during Year 4 (Jan 01, 2012 to Dec 31, 2012).

In situ reference temperatures were recorded at the time of each field download event using a certified laboratory-grade mercury thermometer calibrated in increments of 0.1°C, for comparison to the corresponding hourly logger readings. With the exception of 1 site (halfUP2), mean calibration errors for all temperature loggers were ≤ 0.3 °C.

Results of Year 4 water temperature monitoring over the 132 km length of the study area indicate a moderating effect of hypolimnetic withdrawal from Williston Reservoir and seasonal effects associated with ambient air temperature. Minimum winter temperatures decrease and maximum summer temperatures increase with distance downstream from the facilities.

No significant logistical problems were encountered in Year 4. Short-term data gaps were observed at some stations downstream of tributary mouths due to loggers becoming stranded by out-flowing ice and large woody debris. Data gaps were generally covered by functioning back-up loggers at these locations.

On April 30, 2012, TDGP meters were deployed at 5 locations downstream of the WAC Bennett and Peace Canyon dams due to high probability of spill events at Peace Canyon. A sixth meter was deployed in the Williston Reservoir forebay on June 25 when spill events at the WAC Bennett Dam became imminent. TDGP data was downloaded in the field and sent to BC Hydro technical staff for use in operations planning and potential impact assessment and mitigation.

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1.0 INTRODUCTION

Long-term monitoring of baseline water temperature and total dissolved gas pressure (TDGP) in the vicinity of the WAC Bennett and Peace Canyon dams has been identified as an essential component of the Peace Spill Protocol and the Peace River Flood Pulse Plan as set out by the Peace Water Use Plan Committee and the Peace Water Use Plan (WUP; BC Hydro 2010). Data collected through the monitoring of these parameters will be used to help assess and quantify the environmental effects of spills, as well as to provide information on the temperature regime of the Peace River under normal operating conditions and the influence of reservoir operations on downstream temperature. Long-term baseline temperature data will also be available for use by other projects and monitoring programs within and outside the Peace WUP.

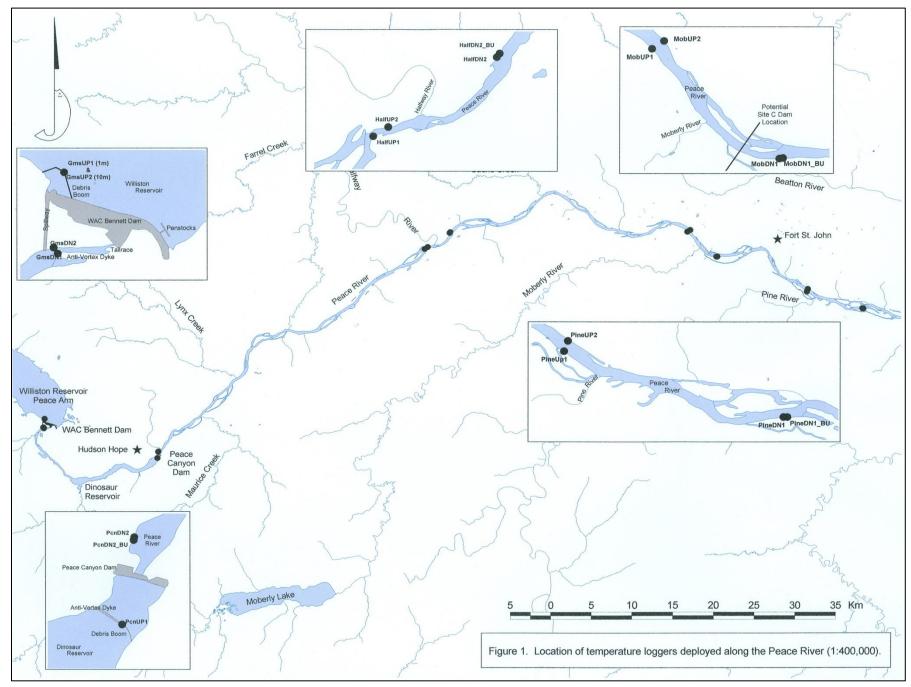
The objectives of this program are to collect data on spatial and temporal variations in water temperature between the WAC Bennett Dam forebay (Williston Reservoir) and a point 6.5 km downstream of the Pine River confluence for up to 10 years, and to maintain TDGP data loggers and related equipment for immediate deployment in the event of a spill event at either the Gordon M. Shrum (GMS) or Peace Canyon (PCN) generating stations. This report summarizes data collection activities completed during Year 4 of the monitoring program (January 01, 2012 to December 31, 2012).

2.0 METHODS

Temperature and TDGP data presented in this summary were recorded between January 01, 2012 and December 31, 2012.

2.1 Temperature Monitoring

Upon commencement of the Peace River baseline temperature monitoring program in September 2008 (Year 1), 20 Tidbit v2 Model #UTBI-001 temperature sensor/logger units (0.2°C accuracy over 0°C to 50°C; 0.02°C resolution @ 25°C; Onset Corp., Bourne, MA) were deployed at 18 locations between the WAC Bennett Dam forebay and a site approximately 6.5 km downstream of the confluence of the Pine and Peace rivers (Fig. 1). During Years 2 and 3, revisions were made to monitoring site positioning and configuration to account for changes in bank conditions, to reduce the potential for logger stranding due to debris and flow level extremes, to increase redundancy in case of logger failure or loss, and to improve accessibility during high flow stage.



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, and Pine rivers), monitoring stations are maintained on opposing banks of the river in order to provide redundancy and confirm temperature consistency across the channel. At Peace River locations downstream of major tributaries, paired station configuration was revised in 2011 (Year 3) from opposing banks to common banks in order to provide better redundancy in tributary outflow paths prone to stranding by passing ice and debris. Temperature loggers originally located downstream and opposite of major tributary mouths, which were providing redundancy for upstream opposite sites, were moved across the channel to provide redundancy for downstream sites in the path of tributary outflow.

Two loggers were originally deployed at the Peace Canyon Dam forebay, the first at 1 m depth and the second at 10 m depth. A comparison of temperatures recorded at 1 m and 10 m depths during Year 1 and part of Year 2 showed little evidence of thermal stratification within the upper 10 m of the forebay, although daytime surface warming in the range of 3-5°C was documented on the warmest days of summer. For this reason the 10 m depth logger was not replaced when it was lost due to a parted cable in Year 2. The two Peace Canyon Dam tailrace loggers were originally located on opposite river banks, approximately 200 m downstream of the dam face. During Years 1 and 2, the south bank location (pcnDN1) frequently experienced stranding due to the lack of a suitable monitoring site. Winter access for downloading was also poor. A comparison of temperatures recorded on the north and south banks between September 2008 and May 2010 indicated a differential of less than 0.2°C. As recommended in the Year 2 interim report, the south bank logger (pcnDN1) was moved to the north bank next to pcnDN2 and renamed pcnDN2BU in Year 3.

By late in Year 3, the program had been revised to include 21 data loggers at 18 monitoring sites. This configuration was maintained throughout Year 4. A summary of temperature monitoring station location information for Year 4 appears in Appendix I.

Temperature loggers were programmed to record water temperature (°C) at 1 hour intervals throughout Year 4. Loggers continued to be 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 large bedrock fragments using either 6.35 mm galvanized steel cable or 3.18 mm stainless steel cable.

Temperature data recorded and stored on each logger during 2012 were downloaded at approximately 3 month intervals (May, July, October, and early January 2013) by field transfer to a Model U-DTW-1

Hobo® waterproof 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 mainstem 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 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). In addition to scheduled download events, temperature loggers at some Peace River mainstem locations were visually checked and re-positioned by DES staff during the course of activities unrelated to the temperature monitoring program.

Data files were exported as MS Office Excel and Access compatible text files using Onset® Hoboware Pro software (Ver. 2.3.0), amalgamated into single Excel worksheets for each data logger, and plotted relative to time.

2.1.1 Year 4 Site Logistics

Few logistical problems were encountered during Year 4, partially due to refinements in station location and configuration made in Years 2 and 3. Occasional stranding of loggers above the waterline during Year 4 was largely associated with the accumulation of debris on cables during flood events, and was confined to station halfDN2, located directly downstream of the confluence with the Halfway River.

Several tether cables required replacement during Year 4 due to ongoing corrosion of the 6.35 mm galvanized cable used in Years 1 to 3. Beginning in Year 4, corroded galvanized tether cables were replaced with 3.18 mm stainless steel cable, which appears to have a longer lifespan.

2.2 Total Dissolved Gas Pressure (TDGP)

Six Model TBO-DL6(F) TDGP monitors (Common Sensing Inc., Clark Fork, ID) were purchased by BC Hydro in Year 1, and stored at the office of Diversified Environmental Services (DES) in Fort St. John, BC. Appendix II contains an inventory of dissolved gas pressure meters and probes. Meters and probes were checked for functionality on a quarterly basis when not in use and battery charge was maintained. Initialization check routines were repeated and the condition of each probe oxygen sensor membrane was examined for evidence of ZnO precipitate build-up. In addition to routine quarterly

maintenance records, calibration statements were obtained for meters that were returned to the manufacturer for repair or factory re-calibration.

TDGP meters were deployed prior to spill events, which occurred between June 26 and August 02, 2012 at the WAC Bennett Dam and between June 25 and July 28, 2012 at the Peace Canyon Dam.

TDGP meters were deployed at 6 locations between Williston Reservoir and the confluence of the Peace and Pine rivers, including WAC Bennett Dam forebay, Peace Canyon Dam forebay anti-vortex dam, Peace Canyon tailrace south bank, Peace Canyon tailrace north bank, Hudson's Hope pumphouse, and upstream of the Pine River at Taylor, BC (Fig. 2). TDGP monitoring site location descriptions and coordinates are presented in Appendix III.

TDGP meters were programmed to record total dissolved gas pressure (mm HG and % saturation) at 15 minute intervals. Meter probes were attached to lead cannon balls, which were secured to shore with 3.18 mm stainless steel cable. Weatherproof meter housings were also secured with stainless steel cable.

3.0 RESULTS AND DISCUSSION

Figures 3 to 13 are presented following section 4.0.

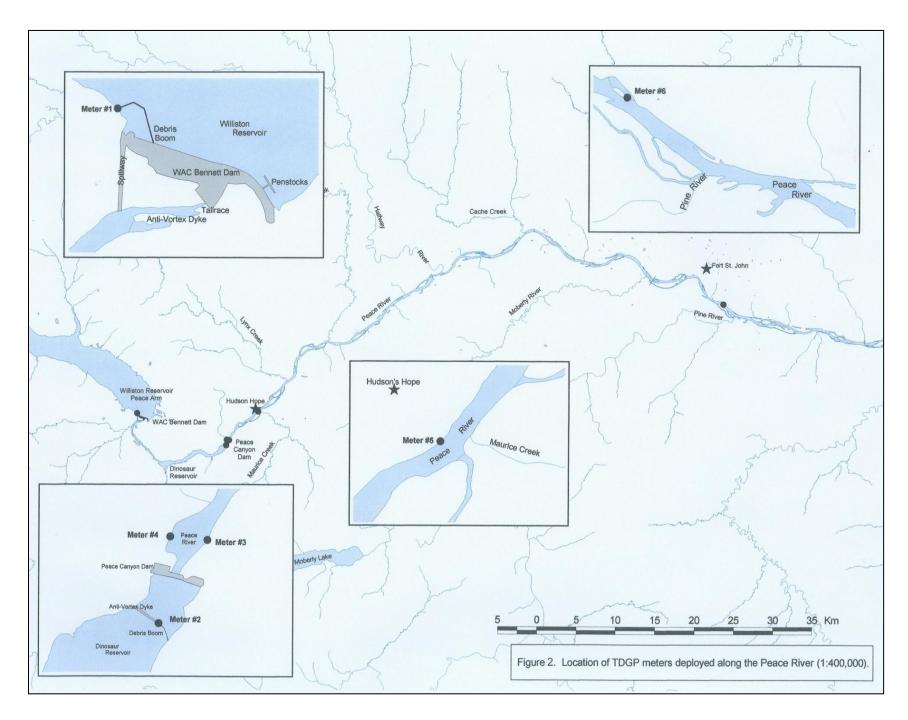
3.1 Temperature Monitoring

Reference temperatures recorded during download events are presented in Appendix IV along with corresponding logger temperatures and indicated error values. With the exception of logger halfUP2 (serial# 2038572), which exhibits a consistent, correctable zero error of approximately 0.8 degrees C, calibration errors for all temperature loggers were typically within the range of 0.3°C. Corrected values for logger halfUP2 are provided in the accompanying 2012 dataset.

A summary of temperature data collection results and related conditions and limitations are discussed in the following 5 sections, which correspond to the 5 major generating station and tributary features. Download Information Forms completed during each download are provided in Appendix V.

3.1.1 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 and the second suspended at a



depth of 10 m. Continuous hourly data for Year 4 were recorded at 1 m depth (gmsUP1); however, data for the 10 m depth (gmsUP2) could not be recovered for the period between January 25 and June 15, 2012. Although the unit's LED indicated the logger was collecting data normally, it would not communicate with the optical shuttle during a download attempted on May 14. The logger was replaced on June 15 after a second unsuccessful attempt to retrieve the stored data. Continuous hourly data from June 15 to December 31 was subsequently downloaded from the replacement logger and spans the 2012 GMS spill period. Temperature data recovered from both units for Year 4 is presented in Figure 3. Although seasonal thermal stratification of Williston Reservoir is evident, the relatively small temperature differential (mean=0.6 °C) suggests the primary thermocline may lie deeper than 10 m. Maximum temperature differentials of 5-6 °C were recorded during periods of significant daytime surface warming on July 18-20. 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 measures 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 4, with the exception of November 3 and 4, 2012, when extremely low water levels caused the south manifold loggers to become exposed. Loggers at the north manifold site (gmsDN2) could not be accessed for downloading during the spring of 2012 due to safety concerns associated with rock scaling work at the spillway bucket. All data was successfully retrieved after completion of the work.

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 (Fig. 4).

3.1.2 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, approximately 450 m upstream of the dam face. Forebay water temperature at 1 m depth was recorded seamlessly through Year 4.

Both Peace Canyon Tailrace loggers (pcnDN2 and pcnDN2BU) provided continuous data throughout Year 4, although both were periodically embedded in substrate mobilized by summer spill events. 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 (Fig. 5). For example, mean differentials of 0.2°C were recorded in winter (December through February) and 0.6°C in summer (June through August). Figure 4 also illustrates limited thermal stratification of the Peace Canyon forebay during peak ambient temperatures in August (i.e., water exiting the Peace Canyon powerhouse (pcnDN2) was slightly cooler than forebay temperatures at 1 m depth (pcnUP1)).

3.1.3 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. Upstream stations were maintained on opposing banks throughout Year 4 (halfUP1 and halfUP2) and logged continuous data. As in previous years, no cross-channel differential was recorded between the opposing upstream stations.

Both the primary and back-up loggers at the Halfway downstream station (halfDN2) were swung into shallow water on 2 occasions by debris flowing from the Halfway River. Although this caused gaps in the halfwayDN2 logger, data loss from the back-up logger (halfDN2BU) was confined to a short period immediately prior to the October 23, 2012 download.

As in previous years, Peace River temperature values recorded at stations upstream and downstream of the Halfway confluence differed markedly. Temperatures collected downstream of the confluence exhibited a greater degree of daily and annual variability (Fig. 6). 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 upstream of its confluence with the Peace are not recorded as part of this project.

3.1.4 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 (mobUP1 and mobUP2) and both recorded seamless hourly data throughout Year 4. No cross-channel differential was recorded, indicating complete cross-channel mixing of tributary inputs from Cache Creek and the Halfway River, located 20 km and 36 km upstream, respectively.

The Moberly downstream logger and downstream back-up logger were both located on the south river bank, within the influence of outfall from the Moberly River. Both downstream loggers recorded continuous data through Year 4.

As in previous years, Peace River temperatures recorded within the influence of the Moberly River (downstream of confluence), were warmer than upstream stations from May through July and cooler than upstream stations from October through December (Fig. 7). 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 are not recorded as part of this project.

3.1.5 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 4, upstream stations were maintained on opposing banks (pineUP1 and pineUP2) and both downstream loggers (pnDN1 and pnDN1BU) were located on the south river bank, within the influence of inputs from the Pine River.

Both upstream loggers recorded continuous hourly data throughout Year 4; little cross-channel differential was noted. The primary downstream logger was dislodged and dragged ashore by ice flow in early April and was re-positioned on May 09, 2012. This logger also became exposed periodically by low flows during the first week in December. The nearby downstream back-up logger remained functional and recorded continuous data throughout Year 4.

Temperature values recorded within the downstream influence of the Pine River (pineDN1) were typically cooler than the Pine River upstream stations from late September through December and slightly warmer from July through mid September (Fig. 8). As is typical, maximum temperature values were attained around August 1st.

Figure 9 presents comparative seasonal temperature changes over the 132 km length of the study area between the WAC Bennett Dam tailrace (gmsDN2) and the Pine River confluence (pineUP1) during 2012. Data appearing in this figure includes Halfway and Pine confluence stations not directly influenced by their respective tributary inputs. The graph illustrates the moderating effect of hypolimnetic withdrawal from Williston Reservoir on downstream temperatures in the Peace River and the seasonal impact of ambient air temperature on downstream water temperatures, i.e., winter

temperatures decrease and summer temperatures increase with distance downstream. Brief periods of homogeneity occurred in March and October, with gradients inverting on either side of these dates to form the typical annual pattern.

Figures 10 and 11 represent temporal comparisons of water temperatures over the 4 calendar years encompassed by the current monitoring program for WAC Bennett Dam tailrace and Pine River confluence sites, respectively. Year to year temperature differences in output from the north manifold of the GMS tailrace suggest corresponding inter-annual variation in Williston Reservoir hypolimnion temperature, with 2012 being considerably cooler than 2010 during all seasons (Fig. 10). Possible factors for this variation may include the proportion of reservoir input contributed by snow melt versus precipitation and annual variations in storage level and drawdown rate and timing. Year to year variations in Peace River water temperature immediately above the Pine River confluence (pnUP1) appear to follow a pattern similar to that observed at the GMS tailrace, with 2012 being generally cooler than 2010 (Fig. 11). While downstream temperature gradient is primarily governed by ambient temperature, particularly during mid-summer and mid-winter, trends in far field downstream temperature appear to be also influenced by Williston Reservoir hypolimnetic temperature.

Spill events at the Peace Canyon Dam during 2012 appear to have had little effect on downstream water temperatures in the Peace River. Due to the shallow depth and relatively high exchange rate of Dinosaur Reservoir, persistent thermal stratification does not typically develop. The resulting lack of temperature differential between spilled water (surface) and turbine output (depth) precludes the potential influence of Peace canyon spilling on water temperature downstream in the Peace River. There was no change in mean temperature differential between Peace Canyon Forebay (pcnUP1) and Peace Canyon Tailrace (pcnDN2) temperatures through the June 25-July 07 spill period $(0.1^{\circ}C)$ as compared to the 10 days immediately prior to the spill $(0.1^{\circ}C)$.

Figure 12 represents a comparison of water temperatures between the WAC Bennett Dam forebay (1 m depth), the WAC Bennett Dam tailrace (mean of north and south manifolds), and the Peace Canyon Dam forebay, encompassing the period that spilling occurred from the WAC Bennett Dam. As evidenced by the increasing differential between the Bennett Dam forebay (gmsUP1) and tailrace temperatures (gmsDN), the 2012 Bennett Dam spill events occurred during a period of rapid summer surface warming in Williston Reservoir during which reservoir hypolimnion temperatures remained relatively stable. It is therefore assumed that spilling operations would have a warming effect on Dinosaur Reservoir due to the introduction of warmer Williston surface water and a decreased

proportion of cooler hypolimnetic turbine output. Because both GMS tailrace monitoring sites lie upstream of the spillway, no temperature data was recorded within the initial mixing zone of the upper Dinosaur Reservoir and this potential effect could not be measured. Although Figure 12 indicates a slight elevation in temperature at the PCN forebay (pcnUP1) 22 km downstream, during the GMS spill period, this differential may have also been partially influenced by variability in daily ambient temperatures, fluctuations in the ratios between turbine output volumes and spill rates, and variability in reservoir exchange rate.

3.2 Total Dissolved Gas Pressure (TDGP) Monitoring

With high probability of spill events at Peace Canyon forecast for early summer, TDGP meters were deployed on April 30, 2012 at 5 sites downstream of the WAC Bennett and Peace Canyon dams. These included PCN forebay (site #2), PCN tailrace LDB¹ (site #3), PCN tailrace RDB² (site #4), Hudson's Hope pumphouse (site #5), and upstream of Pine River confluence (site #6). On June 25, the sixth meter, which was previously being used for spot measurements, was deployed at the Williston Reservoir forebay (site #1) to confirm upstream baseline TDGP values as spills at the WAC Bennett Dam became imminent.

Each meter was connected to a large capacity external battery to extend the monitoring period and reduce the risk of data loss. Stored data was downloaded in the field onto a laptop computer on May 15, June 08, July 03, and July 13, and then sent electronically to BC Hydro technical staff in Burnaby for use in operational planning and impact assessment and mitigation. During the July 13 download, all meters were temporarily removed and shipped by courier to Point Four Systems Inc. for re-calibration. Due to mishandling by the return courier, redeployment of the re-calibrated meters was delayed until July 26; therefore a portion of the spill program was not recorded.

Although no significant logistical problems related to site location and maintenance were encountered, several technical issues arose with meters and/or probes. Calibration problems were apparent in some meters prior to July 13, 2012, including meter #3 in the Peace Canyon tailrace and meter #1 at the Williston Reservoir forebay. In addition, a beaver severed the probe cable at the Hudson's Hope pumphouse site on July 30.

¹ LDB – left downstream bank

² RDB – right downstream bank

Table 1 summarizes spill duration and rates at the WAC Bennett and Peace Canyon dams between late June and early August 2013. Detailed analysis and interpretation of TDGP data was conducted by BC Hydro technical staff as part of the GMSMON-11 program; results are presented in the GMSMON-11 2012 report.

Spillway ID	Start Date/	Time	End Date	/Time	Spill Rate
WAC Bennett	June 26, 2013 June 27, 2013 July 09, 2013 July 24, 2013	12:00 hrs 14:00 hrs 15:00 hrs 10:00 hrs	June 27, 2013 July 09, 2013 July 11, 2013 Aug 02, 2013	14:00 hrs 15:00 hrs 08:00 hrs 14:00 hrs	570 m³/sec 1,500 m³/sec 1,000 m³/sec 580 m³/sec
Peace Canyon	June 25, 2013 June 26, 2013 June 27, 2013 July 07, 2013 July 09, 2013 July 13, 2013 July 24, 2013	11:00 hrs 15:00 hrs 20:00 hrs 17:00 hrs 18:00 hrs 17:00 hrs 14:00 hrs	June 26, 2013 June 27, 2013 July 07, 2013 July 09, 2013 July 11, 2013 July 13, 2013 July 28, 2013	09:00 hrs 20:00 hrs 17:00 hrs 18:00 hrs 09:00 hrs 22:00 hrs 08:00 hrs	500 m³/sec 500 m³/sec 1,200 m³/sec 1,400 m³/sec 1,000 m³/sec 400 m³/sec 310 m³/sec

Table 1. Summary of spill duration and rates at the WAC Bennett and Peace Canyon dams between late June and early August 2012.

Spot measurements recorded at 6 stations spanning the river channel at the Hudson's Hope pumphouse (Site #6) during a PCN spill on July 03, 2012 indicated uniform TDGP values across the wetted profile.

4.0 **RECOMMENDATIONS**

The 6.35 mm galvanized cable used during the initial years of the program has proven to have low resistance to corrosion and should continue to be replaced by the smaller diameter stainless steel cable due to its apparent higher longevity.

In the event that beavers continue to cause problems with TDGP probe cables, a section of the cable at the waterline could be installed through rigid metal EMT conduit to provide protection.

In the event of future spills from the WAC Bennett Dam, an additional temperature logger could be temporarily installed immediately downstream of the spillway mixing zone to document potential affects of the introduction of Williston surface water on upper Dinosaur Reservoir temperatures.

The battery life of the Tidbit v2 Model #UTBI-001 temperature sensors is estimated at approximately 5 years. Scheduled replacement of units should begin in 2014 as per the table presented in Appendix 6.

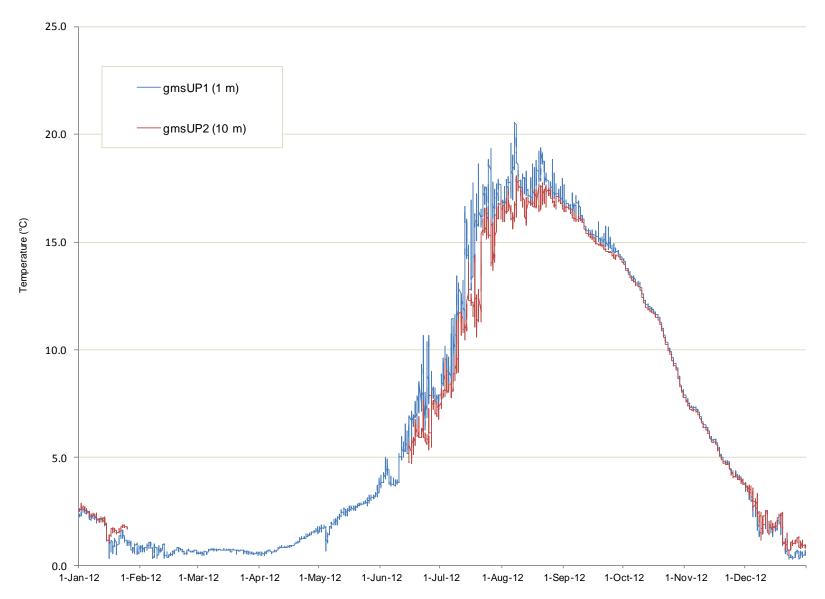


Figure 3. Comparison of water temperature at WAC Bennett Dam forebay station from 1 m depth (gmsUP1) and 10 m depth (gmsUP2) during Year 4, January 01, 2012 – December 31, 2012.

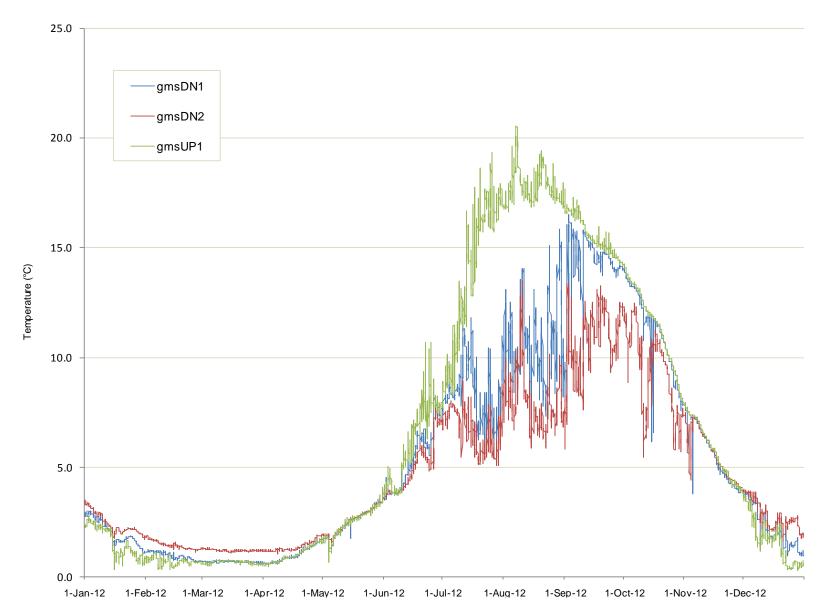


Figure 4. Comparison of water temperature at WAC Bennett Dam forebay surface (gmsUP1), and WAC Bennett Dam tailrace (gmsDN1 and gmsDN2) during Year 4, January 01, 2012 – December 31, 2012.

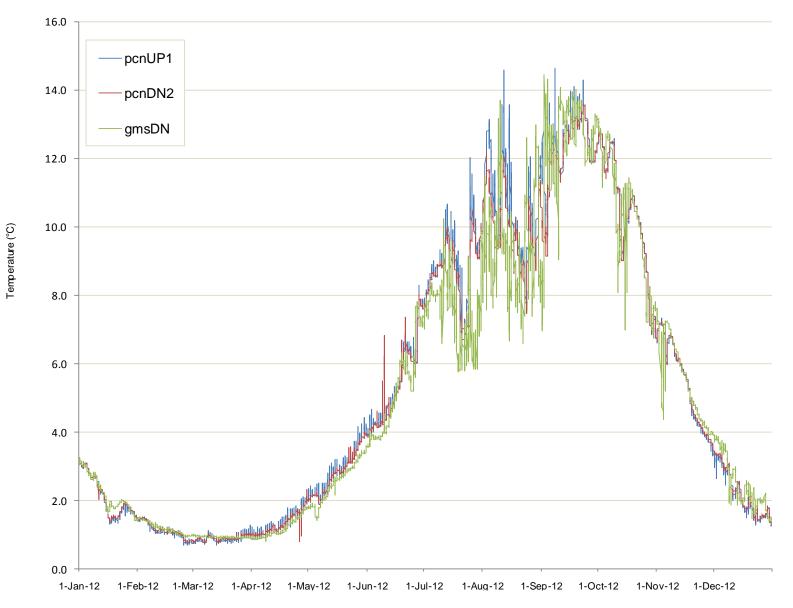


Figure 5. Comparison of water temperature at Peace Canyon forebay surface (pcnUP1), Peace Canyon tailrace (pcnDN2), and WAC Bennett Dam tailrace (gmsDN) during Year 4, January 01, 2012 – December 31, 2012.

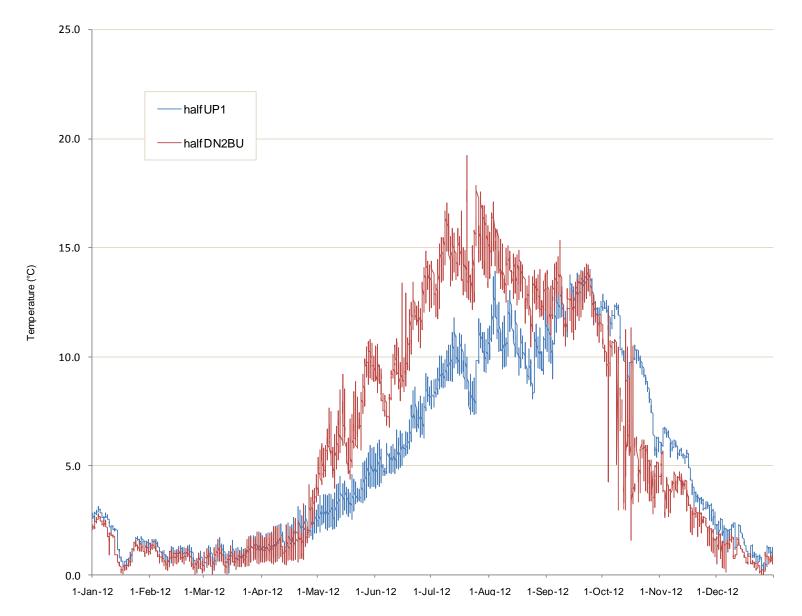


Figure 6. Comparison of Peace River water temperature upstream of Halfway River confluence (halfUP1) and downstream of Halfway River confluence (halfDN2) during Year 4, January 01, 2012 – December 31, 2012.

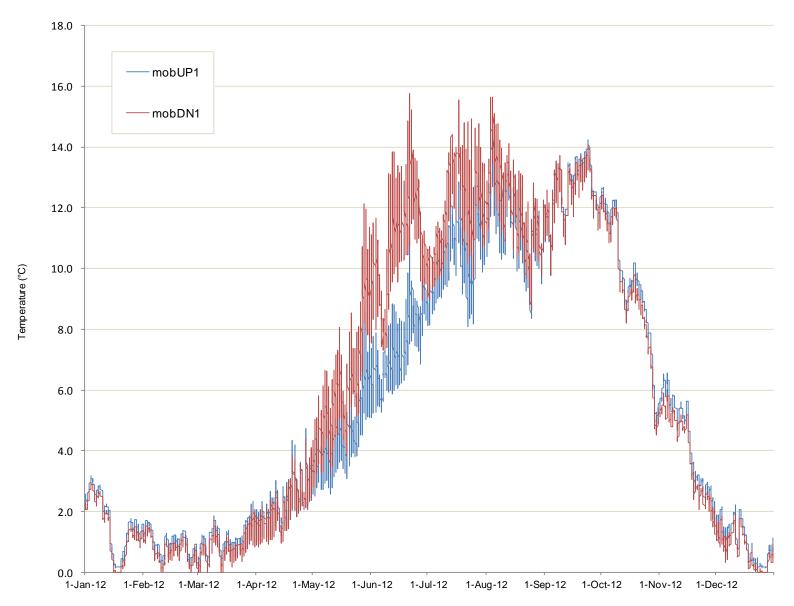


Figure 7. Comparison of Peace River water temperature upstream of Moberly River confluence (mobUP1) and downstream of Moberly River confluence (mobDN1) during Year 4, January 01, 2012 – December 31, 2012.

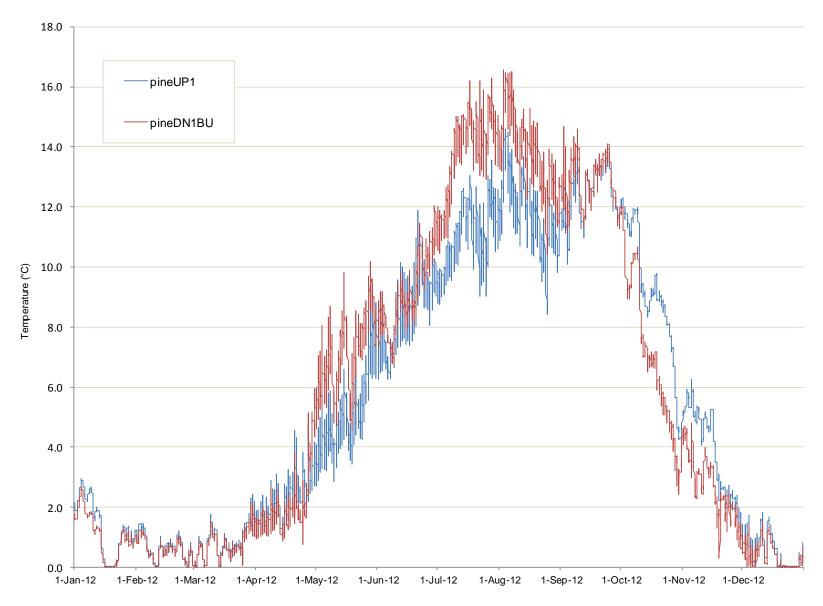


Figure 8. Comparison of Peace River water temperature upstream of Pine River confluence (pineUP1) and downstream of Pine River confluence (pineDN1) during Year 4, January 01, 2012 – December 31, 2012.

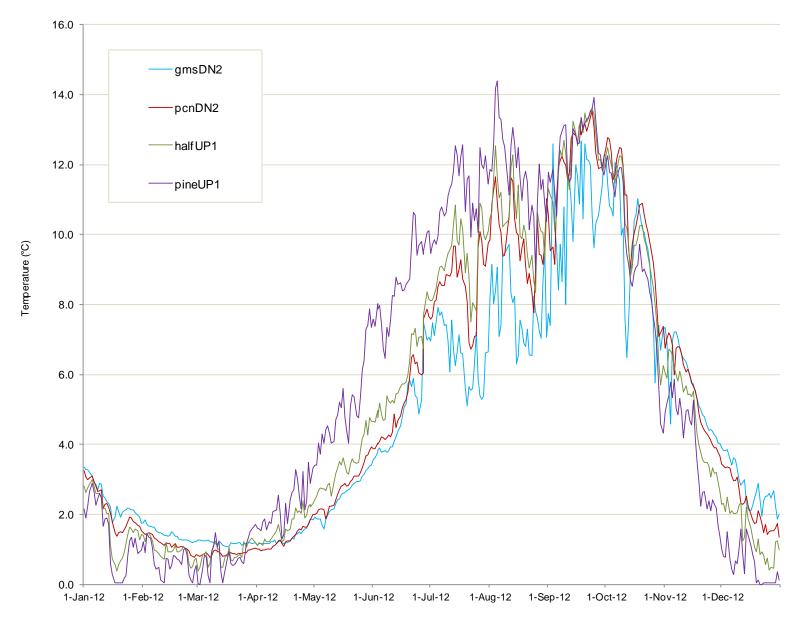


Figure 9. Peace River water temperature gradient from WAC Bennett Dam tailrace, downstream to Pine River confluence, during Year 4, January 01, 2012 – December 31, 2012.

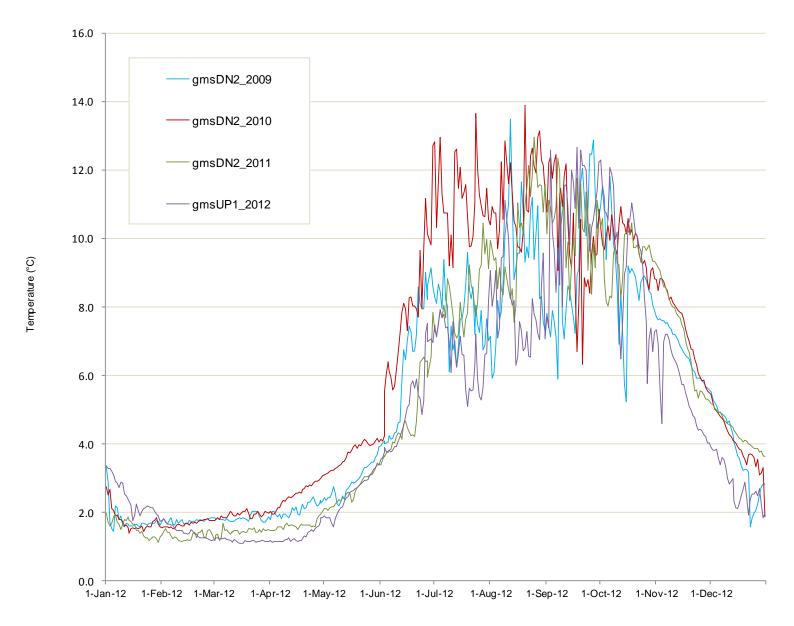


Figure 10. Comparison of water temperature at WAC Bennett Dam tailrace south manifold (gmsDN1) from January 2009 to December 2012.

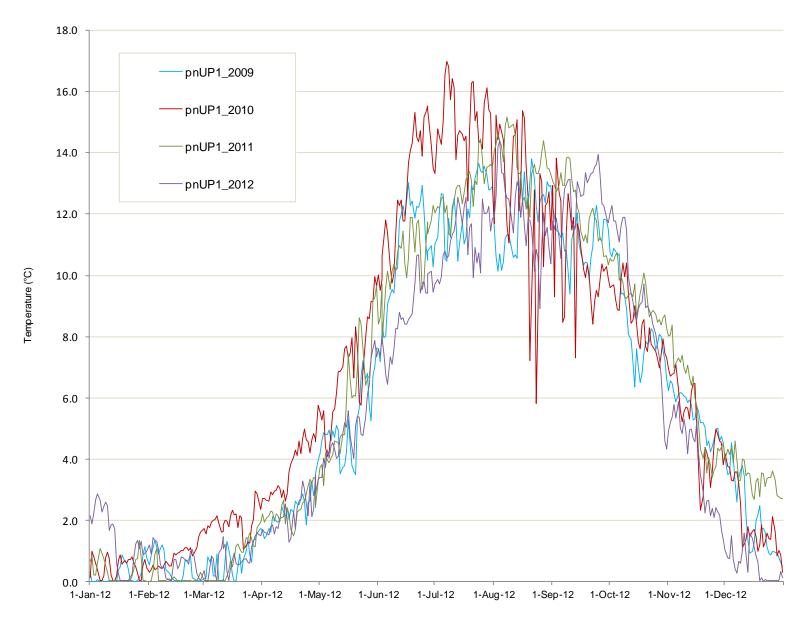


Figure 11. Comparison of water temperature upstream of the Pine River confluence (pnUP1) from January 2009 to December 2012.

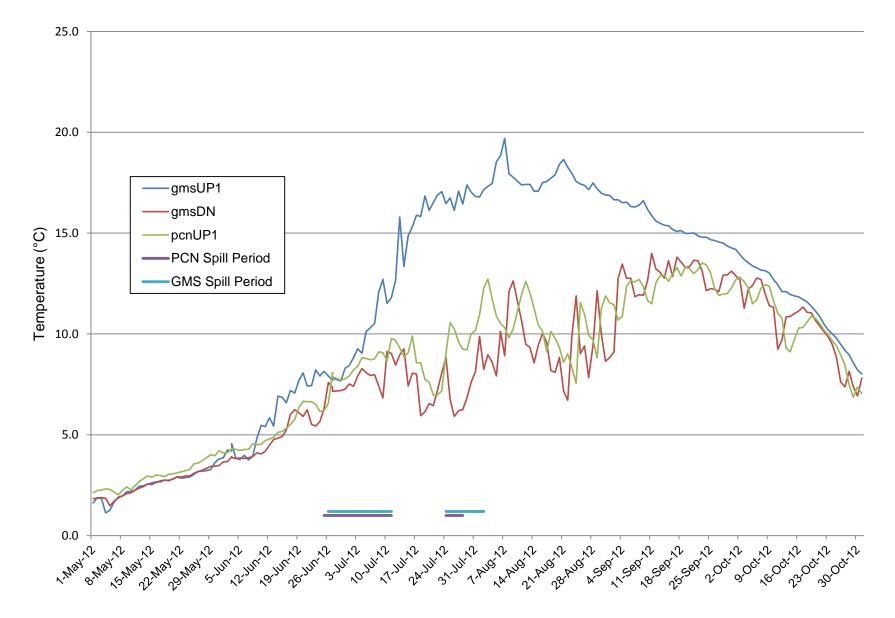


Figure 12. Comparison of water temperature at WAC Bennett Dam forebay (gmsUP1), WAC Bennett Dam tailrace (mean of gmsDN1 and gmsDN2), and Peace Canyon forebay (pcnUP1), May 01, 2012 to October 30, 2012.

REFERENCES

- BC Hydro. 2010. Peace River Water Use Plan; monitoring program terms of reference Peace River Baseline TGP/Temp. BC Hydro, Vancouver, BC. 7pp.
- Point Four Systems Inc. No date. Dissolved gas pressure and oxygen meter/logger Model TBO-DL6(F) Instruction Manual. Revision 3. Prepared by Point Four Systems Inc., Coquitlam, BC.

Site ID	Serial #	Location	U	TM	Comment
	Senai #	Location	East	North	Comment
gmsUP1	2038617	WAC Bennett Forebay	548841	6209022	Steel buoy; 1 m depth
gmsUP2	10156318	WAC Bennett Forebay	548841	6209022	Steel buoy; 10 m depth
gmsDN1	2038619	GMS Tailrace	548881	6207761	South bank; deflection weir riprap
gmsDN1backup	2038613	GMS Tailrace	548881	6207761	South bank; deflection weir riprap
gmsDN2	2038620	GMS Tailrace	548828	6207836	North bank; riprap below Tunnel portal #3
gmsDN2backup	2038614	GMS Tailrace	548828	6207836	North bank; riprap below Tunnel portal #3
pcnUP1	2225325	Peace Canyon Forebay	562684	6204075	Anti-vortex log boom; 1 m depth
pcnDN2	2038621	Peace Canyon Tailrace	562803	6204854	North bank; rock slab
pcnDN2BU	2038568	Peace Canyon Tailrace	562803	6204854	North bank; rock slab
halfUP1	9767573	Halfway Confluence - upstream	595165	6230094	South bank; spruce tree
halfUP2	2038572	Halfway Confluence - upstream	595569	6230541	North bank; spruce tree
halfDN2	2038574	Halfway Confluence - downstream	598198	6232169	North bank; balsam poplar
halfDN2BU	2038623	Halfway Confluence - downstream	598179	6232144	North bank; balsam poplar
mobUP1	2038612	Moberly Confluence - upstream	627158	6232349	South bank; alder
mobUP2	2038616	Moberly Confluence - upstream	627501	6232563	North bank; birch tree
mobDN1	2038622	Moberly Confluence - downstream	630583	6229281	South bank; alder
mobDN1BU	2038576	Moberly Confluence - downstream	630402	6229275	South bank; alder
pineUP1	2038624	Pine Confluence - upstream	641034	6225375	South bank; alder
pineUP2	9767572	Pine Confluence - upstream	641653	6225304	North bank; balsam poplar
pineDN1	2225322	Pine Confluence - downstream	648427	6222837	South bank; alder
pineDN1BU	9762095	Pine Confluence - downstream	648362	6222823	South bank; alder

Appendix I. Temperature monitoring station location information for Year 4, January 01, 2012 to December 31, 2012.

Meter Number	Serial Number	Probe Number	Cable Length (ft)
1	231	1	50
2	228	2	100
3	230	3	100
4	227	4	100
5	226	5	100
6	229	6	100

Appendix II. Inventory of dissolved gas pressure meters and probes.

Site ID	Serial #	Location	U ⁻ East	TM North	Comment
TDGP #1	00231	WAC Bennett Forebay	548590	6208980	At west spillway log boom anchor cable
TDGP #2	00238	PCN Forebay - Anti-Vortex Dam	562686	6204080	Supsended from anti-vortes log boom
TDGP #3	00230	PCN Tailrace - South Bank	563161	6204949	Right downstream bank (RDB)
TDGP #4	00227	PCN Tailrace - North Bank	562791	6204840	Left downstream bank (LDB)
TDGP #5	00226	Hudson's Hope Pumphouse	567716	6209250	LDB 7.2 km downstream form PCN
TDGP #6	00229	Upstream of Pine River Confluence	642589	6224532	Mid channel island 98 km downstream from PCN

Appendix III. TDGP monitoring station locations established during Year 4, January 01, 2012 to December 31, 2012.

Logger ID	Date	Fix	Reference	Error
gmsUP1	25-Jan-12	1.0	0.2	0.8
	14-May-12	2.6	2.7	-0.1
gmsUP2	15-Jun-12	7.2	7.0	0.2
gmsDN1	25-Jan-12	1.8	1.5	0.3
	14-May-12	2.5	2.5	0.0
	7-Aug-12	10.2	10.1	0.1
	9-Oct-12	12.8	12.8	0.0
gmsDN1_BU	25-Jan-12	1.8	1.5	0.3
	14-May-12	2.6	2.5	0.1
	7-Aug-12	10.2	10.1	0.1
	9-Oct-12	12.9	12.8	0.1
gmsDN2	25-Jan-12	2.1	1.8	0.3
	15-Jun-13	4.6	4.5	0.1
	7-Aug-12	9.7	9.8	-0.1
	9-Oct-12	10.0	10.0	0.0
gmsDN2_BU	25-Jan-12	2.1	1.8	0.3
	15-Jun-13	4.6	4.5	0.1
	7-Aug-12	9.8	9.8	0.0
	9-Oct-12	10.0	10.0	0.0
pcnUP1	25-Jan-12	1.8	1.0	0.8
	30-Apr-12	2.0	1.8	0.2
	13-Jul-12	9.8	9.9	-0.1
	9-Oct-12	12.4	12.3	0.1
pcnDN2	25-Jan-12	1.9	1.6	0.3
	30-Apr-12	2.0	1.8	0.2
	13-Jul-12	9.7	9.5	0.2
	9-Oct-12	12.3	12.2	0.1

Appendix IV. Reference temperature values and corresponding logger fix values recorded during download events in Year 4, January 01, 2012 to December 31, 2012.

Logger ID	Date	Fix	Reference	Error
pcnDN2_BU	25-Jan-12	1.9	1.6	0.3
	30-Apr-12	2.0	1.8	0.2
	13-Jul-12	9.7	9.5	0.2
	9-Oct-12	12.3	12.2	0.1
halfUP1	6-Jan-12	2.6	2.3	0.3
	13-May-12	4.1	3.9	0.2
	23-Jul-12	8.6	8.5	0.1
	23-Oct-12	9.2	9.1	0.1
halfUP2	6-Jan-12	1.7	2.4	-0.7
	13-May-12	3.3	4.0	-0.7
	23-Jul-12	7.7	8.5	-0.8
	23-Oct-12	8.2	9.1	-0.9
halfDN2	6-Jan-12	2.3	2.0	0.3
	13-May-12	7.1	6.9	0.2
	23-Jul-12	n/a	13.8	n/a
	23-Oct-12	n/a	5.6	n/a
halfDN2_BU	6-Jan-12	2.3	2	0.3
	13-May-12	6.9	6.9	0.0
	23-Jul-12	13.7	13.8	-0.1
	23-Oct-12	6.1	5.6	0.5
mobUP1	8-Jan-12	2.8	2.6	0.2
	9-May-12	4.4	4.1	0.3
	27-Jul-12	11.1	11.0	0.1
	18-Oct-12	9.7	9.5	0.2
mobUP2	8-Jan-12	2.6	2.5	0.1
	9-May-12	4.6	4.5	0.1
	27-Jul-12	11.9	11.9	0.0
	18-Oct-12	9.2	9.2	

Appendix IV. Reference temperature values and corresponding logger fix values recorded during download events in Year 4, January 01, 2012 to December 31, 2012, cont.

Logger ID	Date	Fix	Reference	Error
mobDN1	8-Jan-12	2.6	2.5	0.1
	9-May-12	5.8	5.8	0.0
	27-Jul-12	12.7	12.9	-0.2
	18-Oct-12	9.3	9.2	0.1
mobDN1_BU	8-Jan-12	2.6	2.5	0.1
	9-May-12	5.8	5.8	0.0
	27-Jul-12	12.9	12.9	0.0
	18-Oct-12	9.2	9.2	0.0
pineUP1	8-Jan-12	2.6	2.6	0.0
	9-May-12	5.0	5.0	0.0
	13-Jul-12	12.0	12.1	-0.1
	18-Oct-12	9.2	9.1	0.1
pineUP2	8-Jan-12	2.7	2.6	0.1
	9-May-12	4.2	4.0	0.2
	13-Jul-12	11.6	11.7	-0.1
	18-Oct-12	9.2	9.1	0.1
pineDN1	8-Jan-12	1.8	1.7	0.1
	9-May-12	7.4	7.4	0.0
	13-Jul-12	14.6	14.7	-0.1
	18-Oct-12	6.7	6.5	0.2
pineDN1_BU	8-Jan-12	1.8	1.7	0.1
	9-May-12	7.4	7.4	0.0
	13-Jul-12	14.5	14.7	-0.2
	18-Oct-12	6.7	6.5	0.2

Appendix IV. Reference temperature values and corresponding logger fix values recorded during
download events in Year 4, January 01, 2012 to December 31, 2012, cont.

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION FORM SITEID pcnUP1 LOCATION PCN Forebay BANK north LOGGER TYPE Tidbit LOGGER SERIAL # 2225325 υтм 562684 6204075 DOWNLOAD DATE 30 Apr 2012 DOWNLOAD TIME 14:05 CREW BC TE TEST RECORDER TYPE WATER TEMP AIR TEMP merc 1.8 12.0 **ICE CONDITIONS** free LOGGER CONDITIONS WATER DEPTH 100 cm **DISLODGED** no REASON BURIED FUNCTIONAL IF DRY, HEIGHT ABOVE WATER no wet cm TETHER TYPE log boom COMMENTS dow nload OK reference temperature taken at surface SITEID pcnDN2_BU LOCATION PCN Tailrace BANK north LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM 562803 6204854 DOWNLOAD DATE 30 2012 DOWNLOAD TIME 15.26 BC TE Apr CREW WATER TEMP AIR TEMP TEST RECORDER TYPE **ICE CONDITIONS** merc 1.8 12.0 free LOGGER CONDITIONS WATER DEPTH 150 cm **DISLODGED** REASON no cm TETHER TYPE BURIED FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER no rock COMMENTS dow nload OK Anchored to same rock as pcnDN2 SITEID pcnDN2 LOCATION PCN Tailrace BANK north LOGGER TYPE Tidbit LOGGER SERIAL # υтм 562803 6204854 2038621 DOWNLOAD DATE 30 Apr 2012 DOWNLOAD TIME 15:29 CREW BC TE TEST RECORDER TYPE WATER TEMP AIR TEMP 1.8 12.0 **ICE CONDITIONS** merc free LOGGER CONDITIONS cm **DISLODGED** WATER DEPTH 150 REASON no BURIED FUNCTIONAL IF DRY, HEIGHT ABOVE WATER cm TETHER TYPE no w et rock COMMENTS dow nload OK SITEID LOCATION BANK LOGGER TYPE LOGGER SERIAL # UTM DOWNLOAD DATE DOWNLOAD TIME CREW WATER TEMP TEST RECORDER TYPE **AIR TEMP ICE CONDITIONS** LOGGER CONDITIONS cm **DISLODGED** WATER DEPTH REASON FUNCTIONAL IF DRY, HEIGHT ABOVE WATER cm TETHER TYPE BURIED COMMENTS

Appendix V. Year 4 download information forms, January 01, 2012 to December 31, 2012.

BC HYD	RO PE	ACE RIV	ER TI	EMPÉR	RATUR		ITORING -	DOWNL	OADI	NFC	RMA	TION F	ORM
SITEID	pineDN1	LOCA	TION			d/s c	of Pine River		BANK		sc	outh	
LOGGER TYPE	-	Tidbit	LO	GGER S	ERIAL #	#	2225322		UTM		648	8427	6222837
DOWNLOAD DAT	E 🤉	9 May	201	2 DOW	/NLOAD	TIME	16:1	2	CREW			BC	TE
TEST RECORDER	TYPE	merc	v	NATER "	TEMP	7.4	AIR TEMP	15.0	ICECO		TIONS		free
					LO	IGGER CO	ONDITIONS						
WATER DEPTH	200	cm 🕻	DISLOD	DGED		yes R	EASON			d	ebris		
BURIED no		FUNCTIO	NAL	wet		IF DRY, H		WATER		cm	TETHE	RTYPE	alder
						COMM							uldol
dow nload OK													
Dragged dow nstre	am by de	ebris; foun	d at ed	lge opf v	<i>w</i> ater.								
		BU LOCA					of Pine River		BANK			outh	
LOGGER TYPE DOWNLOAD DAT		Tidbit 9 Mav	-	GGER S			9762095	<u>,</u>	UTM		648	8362	6222823 TE
TEST RECORDER		9 May merc		2 DOW		7.4	16:2 AIR TEMP	2 15.0	CREW			BC	free
TEST RECORDER	TIFE	merc		AIL			ONDITIONS	15.0	ICEC	JNDI	TUNS		nee
WATER DEPTH	200	cm [DISLOD	DGED			EASON			d	ebris		
BURIED no		FUNCTIO		wet			EIGHT ABOVE	WATER				RTYPE	alder
						COMM	IENTS						
dow nload OK													
Dislodged by debri	s but still	functionin	g.										
	nin al IDO	1.004	TION				(Dine Diver		DANK				n o ath
	pineUP2						of Pine River		BANK		64	4050	north
LOGGER TYPE		Tidbit	LO	GGER S		#	9767572	4	UTM		64	1653 BC	6225304
LOGGER TYPE DOWNLOAD DAT	E 🤅	Tidbit 9 May	LO 2012	2 DOW	VNLOAD	# D TIME	9767572 17:0		UTM CREW			1653 BC	6225304 TE
LOGGER TYPE	E 🤅	Tidbit	LO 2012		VNLOAD TEMP	# D TIME 4.0	9767572 17:0 AIR TEMP	4 15.0	UTM				6225304
LOGGER TYPE DOWNLOAD DAT	E 🤅	Tidbit 9 May merc	LO 2012	2 DOW	VNLOAD TEMP	# DTIME 4.0 DGGER CO	9767572 17:0		UTM CREW				6225304 TE
LOGGER TYPE DOWNLOAD DAT TEST RECORDER	E S TYPE	Tidbit 9 May merc	2012 2012 V	2 DOW	VNLOAD TEMP LO	# 4 .0 DGGER CC R	9767572 17:0 AIR TEM P ONDITIONS	15.0	UTM CREW		<u>FIONS</u>		6225304 TE
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LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no dow nload OK	PineUP1	Tidbit 9 May merc 0 cm E FUNCTIO Tidbit 9 May merc	LOU 2012 DISLOD NAL 2012 2012	2 DOW WATER DGED wet 2 DOW WATER	VNLOAE TEMP LO no NO SERIAL 3 VNLOAE TEMP	# OTIME 4.0 OGGER CC R IF DRY, F COMM COMM U/S C # DTIME 5.0 OGGER CC	9767572 17:0 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS IENTS IENTS AIR TEMP DNDITIONS	15.0 • WATER	UTM CREW ICE CC		TETHE SC 64	BC R TYPE	6225304 TE bals am pop 6225375 TE
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LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no dow nload OK	PineUP1	Tidbit 9 May merc 0 cm C FUNCTIO Tidbit 9 May merc 0 cm C		2 DOW WATER DGED wet 2 DOW WATER	VNLOAE TEMP LO no NO SERIAL 3 VNLOAE TEMP	# 0 TIME 4.0 0 GGER CC R IF DRY, H COMM 4 0 TIME 5.0 0 GGER CC yes R IF DRY, H	9767572 17:0 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ONDITIONS EASON HEIGHT ABOVE	15.0 E WATER 2 15.0	UTM CREW ICE CC		TETHE SC 64 FIONS ebris	BC R TYPE	6225304 TE free bals am pop 6225375 TE free
LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no dow nload OK	PineUP1	Tidbit 9 May merc 0 cm C FUNCTIO Tidbit 9 May merc 0 cm C		2 DOW WATER DGED wet 2 DOW WATER	VNLOAE TEMP LO no NO SERIAL 3 VNLOAE TEMP	# 0 TIME 4.0 0 GGER CC R IF DRY, H COMM 4 0 TIME 5.0 0 GGER CC yes R IF DRY, H	9767572 17:0 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ONDITIONS EASON HEIGHT ABOVE	15.0 E WATER 2 15.0	UTM CREW ICE CC		TETHE SC 64 FIONS ebris	BC R TYPE	6225304 TE free bals am pop 6225375 TE free
LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no dow nload OK	pineUP1	Tidbit 9 May merc 0 cm C FUNCTIO FUNCTIO 9 May merc 0 cm C	LOU 2012 V DISLOD NAL	2 DOW WATER Wet 2 DOW WATER 2 DOW WATER 0GED Wet	VNLOAE TEMP LO no NO SERIAL 3 VNLOAE TEMP LO	# 0 TIME 4.0 0 GGER CC R IF DRY, H COMM 4 0 TIME 5.0 0 GGER CC yes R IF DRY, H	9767572 17:0 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ONDITIONS EASON HEIGHT ABOVE	15.0 E WATER 2 15.0	UTM CREW ICE CC		TETHE SC 64 FIONS ebris	BC R TYPE	6225304 TE free bals am pop 6225375 TE free
LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no dow nload OK	pineUP1	Tidbit 9 May merc 0 cm C FUNCTIO FUNCTIO 9 May merc 0 cm C	LOU 2012 V DISLOD NAL	2 DOW WATER Wet 2 DOW WATER 2 DOW WATER 0GED Wet	VNLOAE TEMP LO no NO SERIAL 3 VNLOAE TEMP LO	# 0 TIME 4.0 0 GGER CC R IF DRY, H COMM 4 0 TIME 5.0 0 GGER CC yes R IF DRY, H	9767572 17:0 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ONDITIONS EASON HEIGHT ABOVE	15.0 E WATER 2 15.0	UTM CREW ICE CC		TETHE SC 64 FIONS ebris	BC R TYPE	6225304 TE free bals am pop 6225375 TE free
LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no dow nload OK	pineUP1	Tidbit 9 May merc 0 cm C FUNCTIO FUNCTIO 9 May merc 0 cm C	LOU 2012 V DISLOD NAL	2 DOW WATER Wet 2 DOW WATER 2 DOW WATER 0GED Wet	VNLOAE TEMP LO no NO SERIAL 3 VNLOAE TEMP LO	# 0 TIME 4.0 0 GGER CC R IF DRY, H COMM 4 0 TIME 5.0 0 GGER CC yes R IF DRY, H	9767572 17:0 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ONDITIONS EASON HEIGHT ABOVE	15.0 E WATER 2 15.0	UTM CREW ICE CC		TETHE SC 64 FIONS ebris	BC R TYPE	6225304 TE free bals am pop 6225375 TE free

BC	HYDH	<u>KO PE/</u>	ACE RIVE	-11	<u>EMPE</u>					<u>UAD</u> I			<u>110</u> N F	
SITEID		nobDN1	LOCAT					Moberly River		BANK			outh	
LOGGER TYP			idbit			SERIAL		2038622		UTM			0583	6229281
DOWNLOAD						WNLOA		17:39	4	CREW				TE
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LOGGER TYP DOWNLOAD I	PE DATE	T 9	idbit May	L (20	OGGER	SERIAL WNLOA	# D TIME	2038612 18:02		UTM CREW		627	7158	TE
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LOGGER TYP DOWNLOAD I TEST RECOR WATER DEF BURIED	PE DATE DER T PTH no	T 9 YPE >200	idbit May merc	20 ⁻	OGGER	SERIAL WNLOA R TEMP L(# D TIME 4.1 OGGER CO RI IF DRY, H	2038612 18:02 AIR TEMP NDITIONS EASON EIGHT ABOVE	14.0	UTM CREW		627 FIONS	7158 BC	TE free
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LOGGER TYP DOWNLOAD I TEST RECOR WATER DEF BURIED	PE DATE DER T PTH no	T 9 YPE >200	idbit May merc		OGGER 12 DOV WATER DOGED wet	SERIAL WNLOA R TEMP L(# D TIME 4.1 OGGER CC RI IF DRY, H COMM	2038612 18:02 AIR TEMP NDITIONS EASON EIGHT ABOVE	14.0	UTM CREW		627 FIONS	7158 BC	TE free
LOGGER TYP DOWNLOAD I TEST RECOR WATER DEF BURIED	PE DATE DERT PTH no	T 99 >200	idbit May merc cm DI FUNCTION	ISLO VAL	OGGER 12 DOV WATER DOGED wet	SERIAL WNLOA R TEMP L(# D TIME 4.1 OGGER CC RI IF DRY, H COMM	2038612 18:02 AIR TEM P INDITIONS EASON EIGHT ABOVE ENTS	14.0	UTM CREW ICE CC		627	7158 BC	TE free alder
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LOGGER TYP DOWNLOAD I TEST RECOR WATER DEF BURIED dow nload OK		T 99 >200 mobUP2 T 9	Idbit May merc cm DI FUNCTION	ISLO NAL TION LC 20	OGGER 12 DOV WATER DOGED wet	SERIAL WNLOA TEMP	# D TIME 4.1 OGGER CC RI IF DRY, H COMM	2038612 18:02 AIR TEM P NDITIONS EASON EIGHT ABOVE ENTS Voberly River 2038616	14.0	UTM CREW ICE CC	cm	627 TIONS TETHE	7158 BC R TY PE	TE free alder alder
LOGGER TYP DOWNLOAD I TEST RECOR WATER DEF BURIED dow nload OK		T 99 >200 mobUP2 T 9	Idbit May merc cm DI FUNCTION	ISLO NAL TION LC 20	OGGER 12 DOV WATER	SERIAL WNLOA TEMP LC no SERIAL WNLOA	# D TIME 4.1 OGGER CC RI IF DRY, H COMM	2038612 18:02 AIR TEM P INDITIONS EASON EGHT ABOVE ENTS Voberly River 2038616 18:08 AIR TEM P INDITIONS	14.0 WATER	UTM CREW ICE CC	cm	627 TIONS TETHE	7158 BC R TY PE	TE free alder alder
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SITEID		gmsUP1						S Forebay		BANK				
LOGGER T		-	Fidbit		Ogger	SERIAL		2038617		UTM		548	8841	6209022
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dow nload C	JK													
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DOWNLOA					012 DO			10:39)	CREW		•	BC	
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							COMM	ENTS						
LED blinking		-		oad; le	ft in repl	ace.								
No ref temp	erature	taken or												
		lanen al	10 m de	pth										
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SITE ID							GMS	Failrace I DB		BANK		50	u ith	
SITE ID LOGGER T		gmsDN1		CATIO		SERIAL		Tailrace LDB 2038619		BANK			outh 8881	6207761
	YPE	gms DN1	LOC Fidbit		N .OGGER 012 DO		#	Tailrace LDB 2038619 11:22		BANK UTM CREW			outh 8881 BC	6207761 SC
LOGGER T	YPE D DATE	gmsDN1	LOC Fidbit	CATION L ay 20	OGGER		#	2038619	2 18	UTM	NDIT	548	8881	
Logger T Downloa Test Reco	YPE D DATE ORDER T	gmsDN1	LOC Fidbit 4 Ma	CATION L ay 20	OGGER	WNLOA R TEM P	# D TIME 2.5 OGGER CC	2038619 11:22 AIR TEM P ONDITIONS		UTM CREW	NDIT	548	8881	SC
LOGGER T DOWNLOA TEST RECO WATER D	YPE D DATE ORDER T	gmsDN1	LOC Fidbit 4 Ma me	CATION L ay 20 rc DISL0	OGGER 012 DO WATER	WNLOA R TEM P	# D TIME 2.5 OGGER CC RI	2038619 11:22 AIR TEMP ONDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC
Logger T Downloa Test Reco	YPE D DATE ORDER T	gmsDN1	LOC Fidbit 4 Ma me	CATION L ay 20 rc DISL0	OGGER 012 DO WATER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881	SC
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LOGGER T DOWNLOA TEST RECO WATER D	YPE D DATE ORDER T DEPTH	gmsDN1	LOC Fidbit 4 Ma me	CATION L ay 20 rc DISL0	OGGER 012 DO WATER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE ORDER T DEPTH no	gmsDN1	LOC Fidbit 4 Ma me cm FUNCT	CATION L Ay 20 rc DISLO	OGGER 012 DO WATER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log	YPE D DATE DRDER T DEPTH no	gmsDN1 1 TYPE 120 88613 in	LOC Fidbit 4 Ma me cm FUNCT	CATION L Ay 20 rc DISLO	OGGER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no	gmsDN1 1 TYPE 120 88613 in	LOC Fidbit 4 Ma me cm FUNCT	CATION L Ay 20 rc DISLO	OGGER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log	YPE D DATE DRDER T DEPTH no	gmsDN1 1 TYPE 120 88613 in	LOC Fidbit 4 Ma me cm FUNCT	CATION L Ay 20 rc DISLO	OGGER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log	YPE D DATE DRDER T DEPTH no	gmsDN1 1 TYPE 120 88613 in	LOC Fidbit 4 Ma me cm FUNCT	CATION L Ay 20 rc DISLO	OGGER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log	YPE D DATE DRDER T DEPTH no	gmsDN1 1 TYPE 120 88613 in	LOC Fidbit 4 Ma me cm FUNCT	CATION L Ay 20 rc DISLO	OGGER	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H	2038619 11:22 AIR TEM P NDITIONS EASON	18	UTM CREW		548 FIONS	8881 BC	SC free
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both dow nl	YPE D DATE DRDER T DEPTH no gger 203 oads Ok	gmsDN1 1 TYPE 120 88613 in 4	LOC Fidbit 4 Ma cm FUNCT same ca	CATION L ay 20 rc DISLO	OGGER 012 DO WATER ODGED w et	WNLOA R TEMP L(# D TIME 2.5 OGGER CC RI IF DRY, H COMM	2038619 11:22 AIR TEM P DNDITIONS EASON IEIGHT ABOVE T ENTS	18	UTM CREW ICE CC		548 FIONS	8881 BC	SC free rock
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both dow nl	YPE D DATE DRDER T DEPTH no gger 203 oads Ok	gmsDN1 TYPE 120 88613 in C	LOC Fidbit 4 Ma FUNCT Same ca	DISLO DISLO IONAL	OGGER 012 DO WATER DOGED w et	WNLOA R TEMP LC no	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	2038619 11:22 AIR TEM P DNDITIONS EASON IEIGHT ABOVE ENTS	18	UTM CREW ICE CC		548	8881 BC	SC free rock
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both dow nl SITE ID LOGGER T	YPE D DATE DRDER T DEPTH no gger 203 oads Ok	gmsDN1 1 120 88613 in (gmsDN2	LOC Fidbit 4 Ma FUNCT Same ca	DISLO DISLO IONAL	OGGER 012 DO WATER DOGED wet	WNLOA RTEMP LC no SERIAL	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	2038619 11:22 AIR TEM P DNDITIONS EASON IEIGHT ABOVE T ENTS	18	UTM CREW ICE CC		548	8881 BC R TYPE 8828	SC free rock north 6207836
LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both dow nl SITE ID LOGGER T DOWNLOA	YPE D DATE DRDER T DEPTH no gger 203 oads Ok oads Ok	gms DN1 TYPE 120 88613 in (gms DN2	LOC Fidbit 4 Ma FUNCT Same ca	CATIONAL DISLO IONAL IDISLO IONAL	N OGGER WATER DOGED Wet	SERIAL WNLOA	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	2038619 11:22 AIR TEM P DNDITIONS EASON IEIGHT ABOVE I ENTS	18 WATER	UTM CREW ICE CC	cm	548 TIONS TETHE	8881 BC	SC free rock rock
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1300 hr fix	taken at	surfac	e w ith 7.0	degre	e refere	nce.								
SITEID		gmsDN2	2 LOC		4		GMS	Tailrace RDB		BANK				north
LOGGER T	YPE		Tidbit	L	OGGER	SERIAL	#	2038620		UTM		548	3828	6207836
DOWNLOA	DDATE	: 1	15 June	ə 20	012 DO	WNLOA	DTIME	14:40	C	CREW			BC	TE
TEST RECO	ORDER 1	TYPE	mer	с	WATER	RTEMP	4.5	AIR TEMP	14	ICECC		TIONS		free
						L	OGGER C	ONDITIONS						
WATER D	EPTH	140) cm	DISLO	ODGED	no	F	REASON						1
BURIED	no		FUNCTIO	ONAL	w et		IF DRY, I	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	rock
							COMM	MENTS						
Back-up log	ger 203	8614 in	same cap	osule.										
Both dow n	loads Ol	<												
SITEID			LOC		J					BANK				
SITE ID LOGGER T	YPE		LOC		N .OGGER	SERIAL	. #			BANK UTM				
			LOC		OGGER		. # \D TIME							
LOGGER T	D DATE		LOC		OGGER	WNLOA	DTIME	AIR TEMP		UTM	NDIT	ΓΙΟΝS		
LOGGER T DOWNLOA	D DATE		LOC		OGGER	WNLOA R TEM P	DTIME	AIR TEM P ONDITIONS		UTM CREW	NDIT	ΓΙΟΝS		
LOGGER T DOWNLOA	D DATE				OGGER	WNLOA R TEM P	OGGER C			UTM CREW	NDIT	FIONS		
Logger T Downloa Test Reco	D DATE			DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER C	ONDITIONS	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D	D DATE		cm	DISLO	OGGER DOV WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED	D DATE		cm FUNCTIO		OGGER DOI WATER	WNLOA R TEM P	OGGER CO F IF DRY, I	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW ICE CC			RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED	D DATE DRDER 1		cm FUNCTIO		OGGER DOI WATER DDGED	WNLOA TEMP L	OGGER CI F IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW ICE CC			RTYPE	
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T	D DATE DRDER 1 DEPTH	TYPE	cm FUNCTIO		OGGER DOV WATER DDGED	WNLOA TEMP L	OGGER CI F IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE	WATER	UTM CREW ICE CC			RTYPE	
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA	D DATE DRDER 1 DEPTH	TYPE	cm FUNCTIO			SERIAL WNLOA	OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS	WATER	UTM CREW ICE CC	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T	D DATE DRDER 1 DEPTH	TYPE	cm FUNCTIO			SERIAL WNLOA	OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS		UTM CREW ICE CC	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECC BURIED SITE ID LOGGER T DOWNLOA TEST RECC	D DATE DRDER 1 DEPTH	TYPE			OGGER DOV WATER DOGED	SERIAL WNLOA	D TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS		UTM CREW ICE CC	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO			SERIAL WNLOA	OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECC BURIED SITE ID LOGGER T DOWNLOA TEST RECC	D DATE DRDER 1 DEPTH	TYPE			OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE		
LOGGER T DOWNLOA TEST RECO BURIED SITE ID LOGGER T DOWNLOA TEST RECO	D DATE DRDER 1 DEPTH	TYPE	Cm FUNCTIO		OGGER DOV WATER DOGED	SERIAL WNLOA	UD TIME OGGER CI IF DRY, I COMM	ONDITIONS REASON HEIGHT ABOVE MENTS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		UTM CREW ICE CC	cm	TETHE		

	G HYD	RO PE	ACE	RIVER	TEMPE	RATU	RE MON	ITORING -	DOWNL	OAD I	NFO	RMAT	ION F	ORM
SITEID		pcnUP1						N Forebay		BANK				north
LOGGER T		•	Fidbit			OFDIAL						500	CO 4	
					OGGER			2225325	0	UTM		562		6204075
DOWNLOA				,	012 DO			11:1	-	CREW			BC	
TEST REC	ORDER 1	YPE	n	nerc	WATER	RTEMP	9.9	AIR TEMP	24.0	ICECC	NDIT	IONS		free
						L	DGGER CO	ONDITIONS						
WATER	DEPTH	100	cn	n DISLO	ODGED	no	R	EASON						
BURIED	no		FUNC	TIONAL	w et		IF DRY, H	HEIGHT ABOVE	WATER		cm	TETHER	RTYPE	log boom
							COMM	IENTS						
				J	J									
dow nload	OK													
reference	temperat	ure take	n at su	urface										
SITEID		pcnDN2	L	OCATIO	N		PC	N Tailrace		BANK			Î	north
LOGGER T	YPE	7	Tidbit		OGGER	SERIAL		2038621		υтм		562	803	6204854
DOWNLOA	AD DATE	1	3 J	July 20	012 DO	WNLOA	DTIME	12:0)7	CREW			BC	TE
TEST REC	ORDER 1	YPE	'n	nerc	WATER	TEMP	9.5	AIR TEMP	24.0	ICECC	NDIT	IONS		free
						L	OGGER CO	ONDITIONS						
WATER	DEPTH	150	cn	n DISLO	ODGED	no	R	EASON	ĺ					
BURIED	no		FUNC	TIONAL	w et		IF DRY, H	HEIGHT ABOVE	WATER		cm	TETHER	RTYPE	rock
							COMM	IENTS						
dow nload	OK													
SITEID					v		PC	N Tailrace		BANK				north
LOGGER T	YPE	1	Fidbit	L	OGGER		#	2038568		UTM		562		6204854
LOGGER T	TYPE	1	Fidbit 3 J	L July 20	OGGER	WNLOA	# D TIME	2038568 12:1		UTM CREW			803 BC	6204854 TE
LOGGER T	TYPE	1	Fidbit 3 J	L	OGGER	WNLOA R TEM P	# D TIME 9.5	2038568 12:1 AIR TEMP	0 24.0	UTM	NDIT			6204854
Logger T Downloa Test Rec	TYPE AD DATE ORDER 1	1 1 1	Tidbit 3 J m	July 20 nerc	OGGER	WNLOA R TEMP L(# D TIME 9.5 DGGER CO	2038568 12:1 AIR TEM P ONDITIONS		UTM CREW	NDIT			6204854 TE
LOGGER T DOWNLOA TEST REC WATER I	ORDER 1	1	Fidbit 3 J m	L July 20 nerc	OGGER 012 DO WATER	WNLOA R TEM P	# 9.5 OGGER CC	2038568 12:1 AIR TEM P ONDITIONS REASON	24.0	UTM CREW		IONS	BC	6204854 TE free
Logger T Downloa Test Rec	TYPE AD DATE ORDER 1	1 1 1	Fidbit 3 J m	July 20 nerc	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW			BC	6204854 TE
LOGGER T DOWNLOA TEST REC WATER I	ORDER 1	1 1 1	Fidbit 3 J m	L July 20 nerc	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 OGGER CC	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	AD DATE ORDER 1 DEPTH no	1 1 1	Fidbit 3 J m	L July 20 nerc	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J m cn FUNC	nerc TIONAL	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J m cn FUNC	nerc TIONAL	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J m cn FUNC	nerc TIONAL	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J rn cn FUNC	nerc TIONAL	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J rn cn FUNC	nerc TIONAL	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J rn cn FUNC	nerc TIONAL	OGGER 012 DO WATER	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored	ORDER 1 ORDER 1 DEPTH no	1 YPE 150	Fidbit 3 J cn FUNC	2 nerc TIONAL	OGGER 012 DO WATER ODGED w et	WNLOA R TEMP L(# 9.5 DGGER CC R IF DRY, H	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW ICE CC		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored	CYPE AD DATE ORDER 1 DEPTH no OK to same	1 YPE 150	Fidbit 3 J cn FUNC	2 nerc TIONAL	OGGER 012 DOI WATER ODGED w et	WNLOA RTEMP	# 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW ICE CC		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored	CYPE AD DATE ORDER 1 DEPTH no OK to same	TYPE 150	Fidbit 3 J cn FUNC	2 nerc TIONAL	OGGER WATER ODGED wet	WNLOA TEMP	# 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	24.0	UTM CREW ICE CC		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA	CYPE AD DATE ORDER 1 DEPTH no OK to same	150 Type	Fidbit 3 J cn FUNC	2 nerc TIONAL	OGGER WATER ODGED Wet	WNLOA TEMP L(no SERIAL WNLOA	# D TIME 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored	CYPE AD DATE ORDER 1 DEPTH no OK to same	150 Type	Fidbit 3 J cn FUNC	2 nerc TIONAL	OGGER WATER ODGED Wet	SERIAL WNLOA R TEMP	# D TIME 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	IZ DCATION L L L L L L L L L L L L L	N OGGER WATER ODGED wet	SERIAL WNLOA R TEMP	# D TIME 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# D TIME 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	IZ DCATION L L L L L L L L L L L L L	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# D TIME 9.5 DGGER CC R IF DRY, F COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload Anchored Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
WATER I BURIED dow nload Anchored SITE ID LOGGER T DOWNLOA TEST REC	CYPE AD DATE ORDER 1 DEPTH no OK to same CVPE AD DATE ORDER 1	150 Type	Fidbit 3 J rm FUNC pcnDN	n DISLO	N OGGER D12 DON WATER WATER DON WATER	SERIAL WNLOA R TEMP	# 9.5 OGGER CC R IF DRY, H COMM	2038568 12:1 AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS	24.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free

B	C HYD	RO PE	ACE RIV	ER T	ТЕМРЕ	RATU	RE MO	NITORING -	DOWNL	OADI	NFC	RMA	TION F	ORM
SITEID		pineUP2						of Pine River		BANK				north
LOGGER T		•	Tidbit		• Ogger:	SEDIAL		9767572				644	652	6225304
DOWNLOA							# D TIME			UTM		04	1653 BC	6225304 TE
TEST RECO			,	20						CREW				
TEST RECO	JRDER	TPE	merc		WATER	RTEMP			28.0	ICECO		TIONS		free
						L	OGGER (CONDITIONS						
WATER D	DEPTH	>200) cm D	ISLC	DDGED	no		REASON						
BURIED	no		FUNCTIO	NAL	w et		IF DRY,	HEIGHT ABOV	E WATER		cm	TETHE	R TYPE	balsam pop
							COM	MENTS						
dow nload (ЭК													
SITEID		pineUP1	LOCA	TION	J		u/s	of Pine River		BANK		so	uth	
LOGGER T		-	Tidbit			SERIAL	#			UTM			1034	6225375
DOWNLOA			3 July				DTIME			CREW		0.		TE
TEST RECO	ORDER 1		merc	-	WATER	RTEMP	12.1	AIR TEMP	28.0	ICECO		TIONS		free
	-							CONDITIONS						
WATER D	DEPTH	>200) cm D	ISLC	DGED	no		REASON			1			
BURIED	no		FUNCTIO				IF DRY,	HEIGHT ABOV	EWATER		cm	TETHE	RTYPE	alder
							COM	MENTS						
dow nload (ЭK													
SITEID	pir	1eDN1_E	3U LOCA	TION	1		d/s	of Pine River		BANK		so	uth	
SITE ID	-		BU LOCA Tidbit	L	OGGER	SERIAL	#	9762095		BANK UTM			outh 3362	6222823
	YPE	1	Tidbit	L	OGGER	SERIAL		9762095					3362	6222823 TE
LOGGER T	YPE D DATE	1	Tidbit	L 20	OGGER	SERIAL WNLOA	# D TIME	9762095 16:1		UTM		648	3362	
LOGGER T DOWNLOA	YPE D DATE	1	Tidbit 3 July	L 20	OGGER	SERIAL WNLOA R TEM P	# D TIME 14.7	9762095 16:1	15	UTM CREW		648	3362	TE
LOGGER T DOWNLOA	YPE D DATE ORDER 1	1	Tidbit 3 July merc	20	OGGER	SERIAL WNLOA R TEMP L(# D TIME 14.7 OGGER (9762095 16: A IR TEMP	15	UTM CREW	ONDIT	648 FIONS	3362 BC	TE
Logger T Downloa Test Reco	YPE D DATE ORDER 1	ר 1 רץףב	Tidbit 3 July merc	20 20 01SLC	OGGER 12 DOV WATER	SERIAL WNLOA R TEMP L(# D TIME 14.7 DGGER (9762095 16: AIR TEMP CONDITIONS	15 28.0	UTM CREW	ONDIT	648 FIONS	3362	TE
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						LC		ONDITIONS	5		<u> </u>			
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Logger sw ung	g tow a	rd shore	e but stil	l functi	onal; re-	positione	ed to >2.0) m depth.						
SITEID	h	alf UP1	LOC		1		u/s of	Halfway Ri	iver	BANK		SC	outh	
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		fDN2_B		ATION	N		d/s of	Halfw ay Ri 20386		BANK		598	3179	north 6263144
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LOGGER TYPE DOWNLOAD D TEST RECORD BURIED r dow nload OK Logger pulled a SITE ID LOGGER TYPE DOWNLOAD D TEST RECORD WATER DEPT BURIED r	ATE ER TYF ICH ISHORE; MO E ATE ER TYF	Tidb 27 PE 0 FU re-positi	it July : merc cm DISI NCTIONA oned in 18	LOGGER 2012 DO WATE LODGED L 0 cm of w N LOGGER 2012 DO WATE	WNLOAI R TEMP LC dry ater. SERIAL WNLOAI R TEMP	# DTIME 12.9 DGGER CO yes RI IF DRY, H COMM d/s of M # DTIME 12.9 DGGER CO RI IF DRY, H	2038576 11:0 AIR TEM P INDITIONS EASON EGHT ABOVE ENTS Moberly River 2038622 11:1 AIR TEM P INDITIONS EASON EIGHT ABOVE	20.0 E WATER 4 20.0	UTM CREW ICE CC 5 5	d cm	630 FIONS Ebris TETHE So 630 FIONS	outh by the second seco	TE free alder 6229281 TE free
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В	C HYD	RO PE	ACE RIVI	ER T	EMPE	RATU	RE MON	ITORING -	DOWNL	OAD I	NFO	RMA	ΓΙΟΝ Ρ	ORM
SITEID		gmsDN2						Tailrace RDB		BANK				north
LOGGER T		•	Tidbit									E 4 C	000	
					DGGER S			2038620		UTM		548	3828	6207836
DOWNLOA			7 Aug				DTIME	10:0		CREW			BC	CTE
TEST REC	ORDER 1	ГҮРЕ	merc		WATER		9.8	AIR TEMP	20	ICECC		TIONS		free
		_	·			L	OGGER C	ONDITIONS						
WATER	DEPTH	100) cm D	ISLO	DGED	no	F	REASON						
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Back-up lo	ager 203	88614 in	same caps	ule										
both dow n			ouno oupo	alo										
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DOWNLOA			7 Aug				DTIME	10:1		CREW			BC	CTE
TEST REC	ORDER	IYPE	merc		WATER			AIR TEMP	20	ICECC		TIONS		free
	DEDTU	400						ONDITIONS			1			-
WATER I		100				no		REASON						
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both dow n	loads Oł	<												
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LOGGER T			LOCAT		DGGER S					UTM				
LOGGER T	AD DATE		LOCAT	LO	DGGER S	VNLOA	DTIME			UTM CREW				
LOGGER T	AD DATE		LOCAT	LO	DGGER S	VNLOA TEMP	DTIME	AIR TEMP		UTM	NDIT	[IONS		
Logger T Downloa Test Rec	AD DATE ORDER 1			LO	DGGER S DOW WATER	VNLOA TEMP	D TIME	ONDITIONS		UTM CREW	DIDIT	TIONS		
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SITEID		gms DN2						ailrace RDB		BANK				north	
LOGGER T		Ç.	Tidbit		GGER S	SERIAL		2038620		UTM		5488	828	6207836	
DOWNLOA			9 Oct					11:34	L	CREW		0.00	BC		
TEST RECO			merc	_	WATER			AIR TEMP	6	ICECC	דורזואי			free	
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DOWNLOA			9 Oct					1150)	CREW			BC		
TEST RECO			merc	_	WATER			AIRTEMP	6	ICECC		TIONS		free	
						L	OGGER CO	NDITIONS							
WATER D	EPTH	120	0		DGED	no		EASON							
BURIED	no		FUNCTION	IAL	w et		-	EIGHT ABOVE	WATER		cm	TETHER	TYPE	rock	
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Back-up log			same caps	ule											
Doth dow m	oads Or	•													
Cable deter	iorating	ronlac	o post dow	heola											
Cable deter	iorating	- replac	e next dow	nload											
Cable deter	iorating	- replac	e next dow	nload											
Cable deter		- replac					GMS	; Forebay		BANK					
		gmsUP1		TION	OGGER S	SERIAL		S Forebay 2038617		BANK UTM		5488	841	6209022	
SITEID	YPE	gmsUP1	LOCA	TION				-				5488	841 BC		
SITE ID LOGGER T	YPE D DATE	gmsUP1	LOCA Tidbit	TION LO 2012		VNLOA TEMP	. # D TIME	2038617		UTM	NDIT				
SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T	gmsUP1	LOCA Tidbit 9 Oct	TION LO 2012 V	2 DOV	VNLOA TEMP	. # AD TIME OGGER CO	2038617 AIR TEMP NDITIONS		UTM CREW	NDIT			TE	
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SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER 1 DEPTH	gmsUP1	LOCAT Tidbit 9 Oct cm Di FUNCTION	TION LOO 2012 W ISLOD	2 DOW WATER	VNLOA TEMP	D TIME	2038617 AIR TEMP NDITIONS EASON EIGHT ABOVE	WATER	UTM CREW		FIONS	BC	TE free	
SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER 1 DEPTH	gmsUP1	LOCA Tidbit 9 Oct cm D	TION LOO 2012 W ISLOD	2 DOW WATER	VNLOA TEMP	D TIME	2038617 AIR TEMP NDITIONS EASON EIGHT ABOVE	WATER	UTM CREW		FIONS	BC	TE free	
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SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED Couldn't act	YPE D DATE DRDER T DEPTH CESS due YPE D DATE DRDER T	gmsUP1	LOCAT Tidbit 9 Oct FUNCTION	TION ISLOD VAL	2 DOV WATER DGED ater.		. # OGGER CO RE IF DRY, HI COMMI COMMI OGGER CO RE IF DRY, HI	2038617 AIR TEMP INDITIONS EASON EIGHT ABOVE I ENTS AIR TEMP INDITIONS EASON EIGHT ABOVE I		UTM CREW ICE CC	cm	TETHER TETHER	BC	TE free	
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SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED Couldn't act	YPE D DATE DRDER T DEPTH CESS due YPE D DATE DRDER T	gmsUP1	LOCAT Tidbit 9 Oct FUNCTION	TION ISLOD VAL	2 DOV WATER DGED ater.		. # OGGER CO RE IF DRY, HI COMMI COMMI OGGER CO RE IF DRY, HI	2038617 AIR TEMP INDITIONS EASON EIGHT ABOVE I ENTS AIR TEMP INDITIONS EASON EIGHT ABOVE I		UTM CREW ICE CC	cm	TETHER	BC	TE free	

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORM	MATION FORM
SITE ID pcnUP1 LOCATION PCN Forebay BANK	north
	562684 6204075
DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 12:55 CREW	BC TE
TEST RECORDER TYPE merc WATER TEMP 12.3 AIR TEMP 5.0 ICE CONDITION	ons free
WATER DEPTH 100 cm DISLODGED no REASON	
BURIED no FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER cm TE	THER TYPE log boom
COMMENTS	log boom
dow nload OK	
reference temperature taken at surface	
SITE ID pcnDN2 LOCATION PCN Tailrace BANK	a satt
	north 562803 6204854
LOGGER TYPE Tidbit LOGGER SERIAL # 2038621 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:08 CREW	562803 6204854 BC TE
TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION	
LOGGER CONDITIONS	inee inee
WATER DEPTH 120 cm DISLODGED no REASON	
	THER TYPE rock
COMMENTS	TOCK
Commetro	
dow nload OK	
burried from w ave action form summer spill.	
SITE D DCDN2 BUL LOCATION PCN Tailrace BANK	north
SITE ID pcnDN2_BU LOCATION PCN Tailrace BANK	north
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM	562803 6204854
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW	562803 6204854 BC TE
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION	562803 6204854 BC TE
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION	562803 6204854 BC TE
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON ICE	562803 6204854 BC TE DNS free
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON Image: Comparison of the temp Temp BURIED yes FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER cm Temp	562803 6204854 BC TE
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON ICE	562803 6204854 BC TE DNS free
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON Image: Common series BURIED yes FUNCTIONAL w et IF DRY, HEIGHT ABOVE WATER cm TE	562803 6204854 BC TE DNS free
LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON Image: Common temperature Image: Common temperature cm TE BURIED yes FUNCTIONAL w et IF DRY, HEIGHT ABOVE WATER cm TE dow nload OK Image: Common temperature Image: Common temperature Image: Common temperature cm TE	562803 6204854 BC TE DNS free
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LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON Image: Comparison of the compa	562803 6204854 BC TE DNS free
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LOGGER TYPE Tidbit LOGGER SERIAL # 2038568 UTM DOWNLOAD DATE 9 Oct 2012 DOWNLOAD TIME 13:11 CREW TEST RECORDER TYPE merc WATER TEMP 12.2 AIR TEMP 5.0 ICE CONDITION WATER DEPTH 120 cm DISLODGED no REASON Image: Common c	562803 6204854 BC TE DNS free
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								9762095				040		6222823
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LOGGER T	YPE	Т	dbit	LC	OGGER S	SERIAL	#	9767572		UTM		641	1653 BC	6225304
LOGGER T DOWNLOA	YPE D DATE	T 18	dbit Oct	LC 201	DGGER S	SERIAL WNLOA	# D TIME	9767572 10:	33	UTM CREW				6225304 TE
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Logger T Downloa Test Reco	YPE D DATE ORDER T	T 18 T YPE 140	dbit Oct merc	201 201	DGGER	SERIAL WNLOA R TEMP	# D TIME 9.1 OGGER (IF DRY,	9767572 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV	33 5.0	UTM CREW ICE CO	ONDIT	FIONS		6225304 TE
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LOGGER T DOWNLOA TEST RECO BURIED dow nload (SITE ID LOGGER T	YPE D DATE DRDER T DEPTH NO DK	T 116 140 140 pineUP1	dbit Oct merc cm D FUNCTION	ISLO NAL	DGGER S	SERIAL WNLOA TEMP L(no SERIAL	# D TIME 9.1 OGGER (IF DRY, COM	9767572 10: AIR TEMP CONDITIONS REASON HEIGHT ABOV MENTS	33 5.0 'E WATER	UTM CREW ICE CC	cm	TETHE	BC R TYPE	6225304 TE free balsam pop
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LOGGER T DOWNLOA TEST RECO BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE DRDER T DEPTH no DK	pineUP1	dbit Oct merc cm D FUNCTION dbit Oct merc cm D	LC 20 ISLO NAL	DGGER S 12 DOV WATER DGED w et 12 DOV WATER	SERIAL WNLOA TEMP LC no SERIAL WNLOA TEMP	# D TIME 9.1 OGGER C IF DRY, COM	9767572 10: AIR TEMP CONDITIONS REASON HEIGHT ABOV MENTS of Pine River 2038624 10: AIR TEMP CONDITIONS REASON	33 5.0 'E WATER 42 5.0	UTM CREW ICE CC	cm	TETHE SO 641	BC R TYPE buth 1034 BC	6225304 TE free balsam pop 6225375 TE free
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LOGGER T DOWNLOA TEST RECO BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO DEPTH D DATE DRDER T DEPTH NO	pineUP1	dbit Oct merc cm D FUNCTION dbit Oct merc cm D	LC 20 ISLO NAL	DGGER S 12 DOV WATER DGED w et 12 DOV WATER	SERIAL WNLOA TEMP LC no SERIAL WNLOA TEMP	# D TIME 9.1 OGGER C IF DRY, COM	9767572 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV MENTS S of Pine River 2038624 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV	33 5.0 'E WATER 42 5.0	UTM CREW ICE CC	cm	TETHE SO 641	BC R TYPE buth 1034 BC	6225304 TE free balsam pop 6225375 TE free
LOGGER T DOWNLOA TEST RECO BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO DEPTH D DATE DRDER T DEPTH NO	pineUP1	dbit Oct merc cm D FUNCTION dbit Oct merc cm D	LC 20 ISLO NAL	DGGER S 12 DOV WATER DGED w et 12 DOV WATER	SERIAL WNLOA TEMP LC no SERIAL WNLOA TEMP	# D TIME 9.1 OGGER C IF DRY, COM	9767572 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV MENTS S of Pine River 2038624 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV	33 5.0 'E WATER 42 5.0	UTM CREW ICE CC	cm	TETHE SO 641	BC R TYPE buth 1034 BC	6225304 TE free balsam pop 6225375 TE free
LOGGER T DOWNLOA TEST RECO BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO DEPTH D DATE DRDER T DEPTH NO	pineUP1	dbit Oct merc cm D FUNCTION dbit Oct merc cm D	LC 20 ISLO NAL	DGGER S 12 DOV WATER DGED w et 12 DOV WATER	SERIAL WNLOA TEMP LC no SERIAL WNLOA TEMP	# D TIME 9.1 OGGER C IF DRY, COM	9767572 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV MENTS S of Pine River 2038624 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV	33 5.0 'E WATER 42 5.0	UTM CREW ICE CC	cm	TETHE SO 641	BC R TYPE buth 1034 BC	6225304 TE free balsam pop 6225375 TE free
LOGGER T DOWNLOA TEST RECO BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO DEPTH D DATE DRDER T DEPTH NO	pineUP1	dbit Oct merc cm D FUNCTION dbit Oct merc cm D	LC 20 ISLO NAL	DGGER S 12 DOV WATER DGED w et 12 DOV WATER	SERIAL WNLOA TEMP LC no SERIAL WNLOA TEMP	# D TIME 9.1 OGGER C IF DRY, COM	9767572 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV MENTS S of Pine River 2038624 10: AIR TEMP CONDITIONS REASON , HEIGHT ABOV	33 5.0 'E WATER 42 5.0	UTM CREW ICE CC	cm	TETHE SO 641	BC R TYPE buth 1034 BC	6225304 TE free balsam pop 6225375 TE free

B				FR 1	TEMPE	RATU		NITORING - I	NWOO		NEO			ORM
SITEID		mobUP2								BANK		TXI07X-		
			200/1					Moberly River						north
LOGGER T			īdbit		OGGER			2038616		UTM		627	7501	6232563
DOWNLOA					012 DO			11:18		CREW			BC	TE
TEST REC	ORDER T	YPE	merc		WATER	TEMP	9.2	AIR TEMP	5.0	ICECO	DNDIT	TIONS		free
						L	ogger C	ONDITIONS						
WATER D	DEPTH	130	cm 🕻	JSLC	DDGED	no	I	REASON						
BURIED	no		FUNCTIO	ΝΔΙ	w et		IF DRY	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	0051100
BOITED	ne		T ONO THO		WOL		-	MENTS		-	onn			spruce
				·			COM							
download														
dow nload (JK													
SITEID	1	mobUP1	LOCA	TION	1		u/s of	Moberly River		BANK		so	uth	
LOGGER T	YPE	Т	īdbit	L L	OGGER	SERIAL	#	2038612		UTM		627	7158	6232349
DOWNLOA	DATE	18	8 Oct	20	012 DO	WNLOA	DTIME	11:20	0	CREW			BC	TE
TEST REC	order t	YPE	merc		WATER	TEMP	9.5	AIR TEMP	5.0	ICECO	DNDIT	TIONS		free
						L	ogger c	ONDITIONS						
WATER D	DEPTH	120	cm C	SLC	DDGED	no		REASON						
BURIED	no		FUNCTIO	NAL	w et		IF DRY,	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	alder
							COMI	MENTS						
dow nload	ЭK													
SITEID	m			TION	1		d/s of	Moborly Piyor		RANK			uth	
SITE ID			BU LOCA					Moberly River		BANK			outh	6220275
LOGGER T	YPE	Т	īdbit	L	OGGER	SERIAL	#	2038576	0	UTM			0403	6229275 TE
LOGGER T DOWNLOA	YPE D DATE	T 18	īdbit 8 Oct	L 20	OGGER	SERIAL WNLOA	# D TIME	2038576 11:30		UTM CREW		630	0403	TE
LOGGER T	YPE D DATE	T 18	īdbit	L 20	OGGER	SERIAL WNLOA R TEM P	# D TIME 9.2	2038576 11:30 AIR TEMP	0 5.0	UTM		630	0403	
Logger T Downloa Test Rec	YPE D DATE ORDER T	T 18 T YPE	īdbit 8 Oct merc	L 20	OGGER	SERIAL WNLOA R TEMP L(# D TIME 9.2 OGGER C	2038576 11:30 AIR TEMP CONDITIONS		UTM CREW		630	0403	TE
LOGGER T DOWNLOA TEST RECO WATER D	YPE DDDATE ORDER T	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEM P	# D TIME 9.2 OGGER C	2038576 11:30 AIR TEMP CONDITIONS REASON	5.0	UTM CREW	ONDIT	630	0403 BC	TE free
Logger T Downloa Test Rec	YPE D DATE ORDER T	T 18 T YPE 120	īdbit 8 Oct merc	20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	ONDIT	630	0403	TE
LOGGER T DOWNLOA TEST RECO WATER D	YPE DDDATE ORDER T	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON	5.0	UTM CREW	ONDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	ONDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	ONDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	DNDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	DNDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	DNDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	DNDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE DDATE ORDER T DEPTH no	T 18 T YPE 120	īdbit 8 Oct merc cm [20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	DNDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	YPE AD DATE ORDER T DEPTH no OK	T TYPE 120	Tdbit BOCt merc Cm L FUNCTIO	20 20 01SLC	OGGER D12 DOV WATER	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	ONDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE AD DATE ORDER T DEPTH no OK	T 18 T YPE 120	Tdbit BOCt merc Cm L FUNCTIO		OGGER 012 DOV WATER DOGED w et	SERIAL WNLOA R TEMP L(# 9.2 OGGER C IF DRY, COMI	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE	5.0	UTM CREW	ONDIT	630	0403 BC	TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED	YPE AD DATE ORDER T DEPTH no OK	T TYPE 120 120 mobDN1	Tdbit BOCt merc Cm L FUNCTIO		OGGER 012 DOV WATER DOGED w et	SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI	2038576 11:3(AIR TEM P CONDITIONS REASON HEIGHT ABOVE MENTS	5.0	UTM CREW ICE CC	ONDIT	630 TIONS TETHE	D403 BC	TE free
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload (T TYPE 120 120 mobDN1	Tidbit BOCt merc Cm L FUNCTIO	L 200 NAL	OGGER 012 DOV WATER DOGED w et	SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI	2038576 11:3(AIR TEM P CONDITIONS REASON HEIGHT ABOVE MENTS	5.0 WATER	UTM CREW ICE CC	cm	630 TIONS TETHE	P403 BC R TY PE	TE free alder
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload (SITE ID LOGGER T		T TYPE 120 120 120 120 120 120 120 120 120 120	Tidbit BOCt merc Cm L FUNCTIO	L 200 DISLC NAL	OGGER DOGED Wet Wet	SERIAL WNLOA TEMP L(no SERIAL WNLOA	# 9.2 OGGER C IF DRY, COMI	2038576 11:3(AIR TEM P CONDITIONS REASON HEIGHT ABOVE MENTS	5.0 WATER	UTM CREW ICE CC	cm	630 TIONS TETHE	P403 BC R TY PE	TE free alder 6229281
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload (SITE ID LOGGER T DOWNLOA		T TYPE 120 120 120 120 120 120 120 120 120 120	Tidbit BOCt merc Cm L FUNCTIO	L 200 DISLC NAL	V OGGER WATER DOGED Wet V OGGER 012 DOV	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI	2038576 11:3(AIR TEM P CONDITIONS REASON HEIGHT ABOVE MENTS	5.0 • WATER 9	UTM CREW ICE CC	cm	630 TIONS TETHE	P403 BC R TY PE	TE free alder 6229281 TE
LOGGER T DOWNLOA TEST REC WATER I BURIED dow nload (SITE ID LOGGER T DOWNLOA	YPE D DATE ORDER T DEPTH no OK	T TYPE 120 120 120 120 120 120 120 120 120 120	Tidbit BOCt merc Cm L FUNCTIO	LL 200 NAL	V OGGER WATER DOGED Wet V OGGER 012 DOV	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI	2038576 11:3(AIR TEM P CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 • WATER 9	UTM CREW ICE CC	cm	630 TIONS TETHE	P403 BC R TY PE	TE free alder 6229281 TE
LOGGER T DOWNLOA TEST REC BURIED dow nload (dow nload (LOGGER T DOWNLOA TEST REC	YPE D DATE ORDER T DEPTH no OK	TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC NAL	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C I IF DRY, COMI d/s of # D TIME 9.2 OGGER C	2038576 11:3(AIR TEM P CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	P403 BC R TY PE	TE free alder 6229281 TE
LOGGER T DOWNLOA TEST REC BURIED dow nload d SITE ID LOGGER T DOWNLOA TEST REC WATER I		TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC NAL	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI d/s of # D TIME 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	N403 BC R TY PE N0583 BC	TE free alder 6229281 TE free
LOGGER T DOWNLOA TEST REC BURIED dow nload d SITE ID LOGGER T DOWNLOA TEST REC WATER I		TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC NAL	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI d/s of # D TIME 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	N403 BC R TY PE N0583 BC	TE free alder 6229281 TE free
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LOGGER T DOWNLOA TEST RECO WATER I BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T NO OK OK	TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC NAL	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI d/s of # D TIME 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	N403 BC R TY PE N0583 BC	TE free alder 6229281 TE free
LOGGER T DOWNLOA TEST RECO WATER I BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T NO OK OK	TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI d/s of # D TIME 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	N403 BC R TY PE N0583 BC	TE free alder 6229281 TE free
LOGGER T DOWNLOA TEST RECO WATER I BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T NO OK OK	TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI d/s of # D TIME 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	N403 BC R TY PE N0583 BC	TE free alder 6229281 TE free
LOGGER T DOWNLOA TEST RECO WATER I BURIED dow nload (SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T NO OK OK	TYPE	Tidbit BOCt merc Cm L FUNCTIO	LL 20 DISLC	V OGGER MATER DOGED Wet V OGGER MATER	SERIAL WNLOA TEMP L(no SERIAL WNLOA TEMP	# 9.2 OGGER C IF DRY, COMI d/s of # D TIME 9.2 OGGER C IF DRY,	2038576 11:30 AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS MENTS	5.0 WATER 9 5.0	UTM CREW ICE CC	cm	630 TIONS TETHE So 630	N403 BC R TY PE N0583 BC	TE free alder 6229281 TE free

B	C HYD	RO PE	AC	ERIV	ER 1	ТЕМРЕ	RATU		NITORING -	DOWNL	OAD I	NFC		TION F	ORM
SITEID		half UP2		LOCAT					Halfway River		BANK				north
LOGGER T			Tidbit				SERIAL		2038572		UTM		505	5569	6230541
DOWNLOA			23	Oct			WNLOA		12:5	0			595		6230541 TE
			.5								CREW			БС	
TEST RECO	JRDER I	YPE		merc	_	WATER	RTEMP	9.1	AIRTEMP	-6	ICECO		TIONS		free
							L	OGGER C	ONDITIONS						
WATER D	EPTH	150)	cm DI	ISLO	DGED	no	I	REASON						
BURIED	no		FUN	NCTION	IAL	w et		IF DRY,	HEIGHT ABOVE	EWATER		cm	TETHE	R TYPE	spruce
								COM	MENTS						
dow nload C	ЭK														
SITEID		half UP1		LOCAT	FION	1		u/s of	Halfway River		BANK		SO	uth	
LOGGER T	YPE	-	Tidbit	t	L	OGGER	SERIAL	#	9767573		UTM		595	5165	6230094
DOWNLOA	D DATE	2	23	Oct	20	12 DO	WNLOA	DTIME	13:0	5	CREW			BC	TE
TEST RECO	order t	YPE		merc		WATER	RTEMP	9.1	AIR TEMP	-6	ICECO	ONDI	TIONS		free
							LC	OGGER C	ONDITIONS						
WATER D	EPTH	200		cm DI			no		REASON						
BURIED	no		FUN	NCTION	IAL	w et			HEIGHT ABOVE	EWATER		cm	TETHE	RTYPE	spruce tree
		<u> </u>				<u> </u>		COMI	MENTS						
dow nload C)K														
					_										
											DANK				
		half DN2		LOCAT					Halfw ay River		BANK				north
LOGGER T	YPE	-	Tidbit	t	L	ogger	SERIAL	#	2038574	0	UTM		598	3198	6232169
LOGGER T DOWNLOA	YPE D DATE	2		t Oct	L (20	OGGER	WNLOA	# D TIME	2038574 13:2		UTM CREW				6232169 TE
LOGGER T	YPE D DATE	2	Tidbit	t	L (20	OGGER	WNLOA R TEMP	# D TIME 5.6	2038574 13:2 AIR TEMP	29 -5	UTM				6232169
Logger T Downloa Test Reco	YPE D DATE ORDER T	2	Tidbit 23	t Oct merc	L (20	OGGER 12 DO WATER	WNLOA R TEMP	# D TIME 5.6 DGGER C	2038574 13:2 AIR TEM P ONDITIONS	-5	UTM CREW				6232169 TE
LOGGER T DOWNLOA TEST RECO WATER D	YPE D DATE ORDER T DEPTH	2	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes	2038574 13:2 AIR TEM P CONDITIONS REASON tamp	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
Logger T Downloa Test Reco	YPE D DATE ORDER T	2	Tidbit 23	t Oct merc	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP	# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW	ONDIT	<u>FIONS</u>		6232169 TE
LOGGER T DOWNLOA TEST RECO WATER D	YPE D DATE ORDER T DEPTH	2	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEM P CONDITIONS REASON tamp	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE ORDER 1 DEPTH no	2	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no DK	2 ГҮРЕ	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no DK	2 ГҮРЕ	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no DK	2 ГҮРЕ	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no DK	2 ГҮРЕ	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no DK	2 ГҮРЕ	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T DEPTH no DK	2 ГҮРЕ	Tidbit 23	t Oct merc cm DI	20 15LC	OGGER 12 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY,	2038574 13:2 AIR TEMP ONDITIONS REASON tamp HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	ONDIT	<u>FIONS</u>	BC	6232169 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C logger pulle	YPE D DATE DRDER 1 DEPTH no DK d onto s	TYPE	FUN	t Oct merc cm DI		OGGER 112 DO WATER	WNLOA R TEMP L(# D TIME 5.6 OGGER C yes IF DRY, COMP	2038574 13:2 AIR TEMP ONDITIONS REASON tam HEIGHT ABOVE	-5 pered	UTM CREW ICE CO	cm	<u>FIONS</u>	BC	6232169 TE free balsam pop
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C logger pulle	YPE D DATE DRDER 1 DEPTH no DK d onto s	hore	Tidbit 23 FUN	t Oct merc cm DI VCTION		OGGER 112 DOI WATER DOGED	WNLOA RTEMP LC dry	# D TIME 5.6 OGGER C yes IF DRY, COMP	2038574 13:2 AIR TEMP ONDITIONS REASON tam HEIGHT ABOVE MENTS	-5 pered	UTM CREW ICE CO 30	cm	TETHE	BC R TYPE	6232169 TE free balsam pop
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload O logger pulle	YPE D DATE DRDER 1 DEPTH no DK d onto s	hore	Tidbit BU Tidbit	t Oct merc Cm DI NCTION		OGGER	WNLOA TEMP LC dry SERIAL	# D TIME 5.6 OGGER C yes IF DRY, COMI	2038574 13:2 AIR TEMP ONDITIONS REASON tam HEIGHT ABOVE MENTS	-5 Dered EWATER	UTM CREW ICE CO 30	cm	TETHE	BC R TYPE	6232169 TE free balsam pop
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LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload O logger pulle	YPE D DATE DRDER 1 DEPTH no DK d onto s	hore	Tidbit BU Tidbit	t Oct merc Cm DI NCTION		OGGER	WNLOA TEMP LC dry SERIAL WNLOA TEMP	# D TIME 5.6 OGGER C yes IF DRY, COMI COMI d/s of # D TIME 5.6	2038574 13:2 AIR TEMP ONDITIONS REASON tam HEIGHT ABOVE MENTS Halfw ay River 2038623 13:3 AIR TEMP	-5 Dered EWATER	UTM CREW ICE CO 30	cm	TETHE 598	BC R TYPE	6232169 TE free balsam pop
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SITEID								of Pine River	Denna	BANK				
LOGGER T			idbit		-								outh	
					OGGER			9762095	-	UTM		648	3362	6222823
DOWNLOA					012 DO			10:1		CREW			BC	
TEST RECO	ORDER T	YPE	mer	2	WATER	RTEMP			5.0	ICECC		TIONS		free
						L	OGGER C	CONDITIONS						
WATER D	DEPTH	130	cm	DISLO	ODGED	no		REASON						
BURIED	no		FUNCTIO	DNAL	wet		IF DRY,	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	alder
								MENTS						
dow nload (ЭK													
	5													
SITEID	1	pineDN1	LOC				d/s	of Pine River		BANK		50	outh	
LOGGER T		•	ïdbit			SERIAL	#			UTM			3427	6222837
DOWNLOA							DTIME		5	CREW		0.0	BC	
TEST RECO			mer			RTEMP			5.0	ICECC		LIONS		free
				, 				CONDITIONS	0.0		71421	10110		1100
WATER D	EPTH	120	cm	DISL	ODGED	no		REASON						
BURIED	no		FUNCTIO					HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	alder
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dow nload (ЭК													
SITEID		pineUP2	LOC		N		u/s	of Pine River		BANK				north
SITE ID LOGGER T		•	LOC.		N .OGGER			of Pine River 9767572		BANK UTM		641	1653	north 6225304
	YPE	Т	īdbit	L		SERIAL	#		3			641	1653 BC	6225304
LOGGER T	YPE D DATE	T 18	īdbit	L 20	OGGER	SERIAL	# D TIME	9767572 10:33	3 5.0	UTM				6225304
LOGGER T DOWNLOA	YPE D DATE	T 18	īdbit 3 Oct	L 20	OGGER	SERIAL WNLOA R TEMP	# DTIME 9.1	9767572 10:33		UTM CREW				6225304 TE
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SITEID		half UP2	LOCAT				Halfway River		BANK		1		north
LOGGER T			Fidbit								506	-560	6230541
DOWNLOA					GER SERIAL		2038572	`	UTM		590	5569 BC	6230541 MC
								-	CREW			BC	-
TEST RECO	ORDER I	YPE	merc	VV/	ATER TEMP	-	AIRTEMP	-10	ICECO	ONDI	IONS		free
					L	OGGER C	ONDITIONS						
WATER D	EPTH	30	cm D	ISLODG	ED	yes F	REASON						unk
BURIED	no		FUNCTION	JAL W	v et	IF DRY, I	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	spruce
						COMM	MENTS						
dow nload (Ж												
logger sw u	ng to sh	ore in 30	0 cm of w a	ter									
	-												
SITEID		half UP1	LOCA	TION		u/s of	Halfway River		BANK		so	outh	
LOGGER T			Fidbit		GER SERIAL		9767573		UTM			5165	6230094
DOWNLOA					DOWNLOA		14:22	2	CREW				MC
TEST RECO			merc	_	ATER TEMP		AIR TEMP	-10	ICECO		TIONS		free
							ONDITIONS						· · ·
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SITE ID		half DN2					Halfw ay River		BANK				north
SITE ID LOGGER T	YPE	٦	Fidbit	LOG		_ #	2038574		UTM		598	3198	6232169
SITE ID LOGGER T DOWNLOA	YPE D DATE	1	lidbit Jan	LOG 2013	DOWNLOA	. # D TIME	2038574 15:07		UTM CREW			3198 BC	6232169 MC
SITE ID LOGGER T	YPE D DATE	1	Fidbit	LOG 2013	DOWNLOA ATER TEMP	D TIME	2038574 15:07 AIR TEMP	7-10	UTM				6232169
SITE ID LOGGER T DOWNLOA TEST RECC	YPE D DATE ORDER T	ר 1 רץףב	Fidbit Jan merc	2013	DOWNLOA ATER TEMP	D TIME 0.0 OGGER C	2038574 15:07 AIR TEM P ONDITIONS	-10	UTM CREW				6232169 MC free
SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T	1	Fidbit Jan merc cm D	LOG 2013 W/	DOWNLOA ATER TEMP L	D TIME 0.0 0GGER C yes F	2038574 15:07 AIR TEM P ONDITIONS REASON tamp	-10 ered	UTM CREW ICE CO		<u>FIONS</u>	BC	6232169 MC free ukn
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					GGER SERIAL		9767572		UTM		641	1653	6225304
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LOGGER T DOWNLOA	YPE D DATE	T 2	īdbit 2 Jan	LOG 2013	GGER SERIAL	AD TIME	9762095 14:08		UTM CREW		648	3362 BC	MC
LOGGER T	YPE D DATE	T 2	īdbit	LOG 2013	GGER SERIAL DOWNLOA VATER TEMP	AD TIME 0.0	9762095 14:08 AIR TEMP	-10.0	UTM	DNDIT	648	3362 BC	
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TEST RECO	ORDER T	YPE	m	nerc	WATEF	RTEMP	1.0	AIR TEMP	-2.0	ICECO	NDIT	IONS		free
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WATER D	EPTH	100	cn	n DISL	ODGED	no	R	EASON						
BURIED	no		FUNC		wet						cm	TETHE	RTYPE	log boom
BORALD	no		TONO	TIONAL	WCt		COMM				CIII			log boom
							COMIN							
dow nload C														
reference to	emperat	ure taker	i at su	Irrace										
SITEID		pcnDN2	LC	OCATIO	N		PC	N Tailrace		BANK				north
LOGGER T	YPE	Т	ïdbit	L	OGGER	SERIAL	#	2038621		UTM		562	803	6204854
DOWNLOA	D DATE	4		Jan 2	013 DO	WNLOA	DTIME	13:4	3	CREW			BC	TE
TEST RECO	order t	YPE	n	nerc	WATEF	RTEMP	1.0	AIR TEMP	-2.0	ICECO	NDIT	IONS		free
						L	OGGER CO	ONDITIONS						
WATER D	EPTH	110	cm	n DISL	ODGED	no	R	EASON						
BURIED	no		FUNC	TIONAL	wet		IF DRY, H	EIGHT ABOVE	WATER		cm	TETHE	RTYPE	rock
							COMM	ENTS						
dow nload C	ЭK													
cable corro	ded; cha	ange out	next c	dow nloa	d.									
SITEID	pc	nDN2 B	U LC		N		PC	N Tailrace		BANK				north
		nDN2_B T	U LC			SERIAL		N Tailrace 2038568		BANK		562	2803	north 6204854
SITE ID LOGGER T DOWNLOA	YPE	Т	īdbit	L	OGGER		#	N Tailrace 2038568 13:4	.4	UTM		562	2803 BC	6204854
LOGGER T	YPE D DATE	т 4	idbit	L	OGGER		#	2038568	-2.0	UTM CREW				6204854
LOGGER T	YPE D DATE	т 4	idbit	Jan 2	OGGER	WNLOA R TEM P	# D TIME 1.0	2038568 13:4		UTM)NDIT			6204854 TE
Logger T Downloa Test Reco	YPE D DATE ORDER T	T 4 YPE	idbit d m	Jan 2 nerc	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC	2038568 13:4 AIR TEM P DNDITIONS		UTM CREW	NDIT			6204854 TE
LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T DEPTH	T 4 YPE 110	īdbit m	Jan 2 nerc	OGGER 013 DO WATER	WNLOA R TEM P	# D TIME 1.0 OGGER CC	2038568 13:4 AIR TEM P DNDITIONS EASON	-2.0	UTM CREW		IONS	BC	6204854 TE free
Logger T Downloa Test Reco	YPE D DATE ORDER T	T 4 YPE 110	īdbit m	Jan 2 nerc	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS		6204854 TE
LOGGER T DOWNLOA TEST RECO	YPE D DATE ORDER T DEPTH	T 4 YPE 110	īdbit m	Jan 2 nerc	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE ORDER T DEPTH no	T 4 YPE 110	īdbit m	Jan 2 nerc	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO EPTH NO	T YPE 110	idbit m cm FUNC	Jan 2 nerc n DISL TIONAL	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO EPTH NO	T YPE 110	idbit m cm FUNC	Jan 2 nerc n DISL TIONAL	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO EPTH NO	T YPE 110	idbit m cm FUNC	Jan 2 nerc n DISL TIONAL	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO EPTH NO	T YPE 110	idbit m cm FUNC	Jan 2 nerc n DISL TIONAL	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO EPTH NO	T YPE 110	idbit m cm FUNC	Jan 2 nerc n DISL TIONAL	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER T NO EPTH NO	T YPE 110	idbit m cm FUNC	Jan 2 nerc n DISL TIONAL	OGGER 013 DO WATER	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C Anchored to	YPE D DATE DRDER T NO EPTH NO	T YPE 110	īdbit m cm FUNC	I an 2 nerc n DISL TIONAL	OGGER 013 DO WATER ODGED wet	WNLOA R TEM P L(# D TIME 1.0 OGGER CC R IF DRY, H	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW ICE CC		IONS	BC	6204854 TE free
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LOGGER T DOWNLOA TEST RECC WATER D BURIED dow nload C Anchored to SITE ID LOGGER T	YPE D DATE DRDER T DEPTH no DK o same t	TYPE 110	īdbit m cm FUNC	L Jan 2 nerc TIONAL	OGGER WATE ODGED wet	WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-2.0	UTM CREW ICE CC		IONS	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECC WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA	YPE D DATE DRDER T NO DEPTH no DK o same to DK	TYPE 110 rock as p	īdbit m cm FUNC	L Jan 2 nerc TIONAL	OGGER WATE ODGED wet	WNLOA TEMP L(no SERIAL WNLOA	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON IEIGHT ABOVE ENTS	-2.0	UTM CREW ICE CC	cm I	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECC WATER D BURIED dow nload C Anchored to SITE ID LOGGER T	YPE D DATE DRDER T NO DEPTH no DK o same to DK	TYPE 110 rock as p	īdbit m cm FUNC	L Jan 2 nerc TIONAL	OGGER WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON IEIGHT ABOVE ENTS	-2.0	UTM CREW ICE CC	cm I	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECC WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA TEST RECC	YPE D DATE DRDER T NO PEPTH no DK o same to DK o same to DK D DATE D DATE DRDER T	TYPE 110 rock as p	idbit m FUNC	I L I Jan 2' nerc TIONAL 2 2 2 2 2 2 2 2 2 2 2 2 2	N OGGER WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON IEIGHT ABOVE ENTS	-2.0	UTM CREW ICE CC	cm I	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE DRDER T NO PEPTH no DK o same to DK o same to DK D DATE D DATE DRDER T	TYPE 110 rock as p	idbit m cm FUNC	n DISL DCATIONAL n DISL 12 12 12 12 12 12 12 12 12 12	OGGER 013 DO WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON EIGHT ABOVE ENTS	-2.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECC WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA TEST RECC	YPE D DATE DRDER T NO PEPTH no DK o same to DK o same to DK D DATE D DATE DRDER T	TYPE 110 rock as p	idbit m cm FUNC	I L I Jan 2' nerc TIONAL 2 2 2 2 2 2 2 2 2 2 2 2 2	OGGER 013 DO WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON EIGHT ABOVE ENTS AIR TEMP DNDITIONS EASON EIGHT ABOVE	-2.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE DRDER T NO PEPTH no DK o same to DK o same to DK D DATE D DATE DRDER T	TYPE 110 rock as p	idbit m cm FUNC	n DISL DCATIONAL n DISL 12 12 12 12 12 12 12 12 12 12	OGGER 013 DO WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON EIGHT ABOVE ENTS AIR TEMP DNDITIONS EASON EIGHT ABOVE	-2.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
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LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE DRDER T NO PEPTH no DK o same to DK o same to DK D DATE D DATE DRDER T	TYPE 110 rock as p	idbit m cm FUNC	n DISL DCATIONAL n DISL 12 12 12 12 12 12 12 12 12 12	OGGER 013 DO WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON EIGHT ABOVE ENTS AIR TEMP DNDITIONS EASON EIGHT ABOVE	-2.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
LOGGER T DOWNLOA TEST RECO WATER D BURIED dow nload C Anchored to SITE ID LOGGER T DOWNLOA TEST RECO	YPE D DATE DRDER T NO PEPTH no DK o same to DK o same to DK D DATE D DATE DRDER T	TYPE 110 rock as p	idbit m cm FUNC	n DISL DCATIONAL n DISL 12 12 12 12 12 12 12 12 12 12	OGGER 013 DO WATE ODGED wet	SERIAL WNLOA TEMP	# D TIME 1.0 OGGER CC R IF DRY, H COMM	2038568 13:4 AIR TEMP DNDITIONS EASON EIGHT ABOVE ENTS AIR TEMP DNDITIONS EASON EIGHT ABOVE	-2.0	UTM CREW ICE CC	cm	TETHE	BC	6204854 TE free
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uale	3.			
Site ID	Serial #	Location	Date Deployed	Replace Date
gmsUP1	2038617	WAC Bennett Forebay	Sep 2008	2014
gmsUP2	10156318	WAC Bennett Forebay	June 2012	2018
gmsDN1	2038619	GMS Tailrace	Sep 2008	2014
gmsDN1backup	2038613	GMS Tailrace	Nov 2009	2015
gms DN2	2038620	GMS Tailrace	Sep 2008	2014
gmsDN2backup	2038614	GMS Tailrace	Nov 2009	2015
pcnUP1	2225325	Peace Canyon Forebay	Sep 2008	2014
pcnDN2	2038621	Peace Canyon Tailrace	Sep 2008	2014
pcnDN2BU	2038568	Peace Canyon Tailrace	Sep 2008	2014
HalfUP1	9767573	Halfway Confluence - upstream	May 2011	2017
HalfUP2	2038572	Halfway Confluence - upstream	Sep 2010	2015
HalfDN2	2038574	Halfway Confluence - downstream	Sep 2008	2014
HalfDN2BU	2038623	Halfway Confluence - downstream	Sep 2008	2014
MobUP1	2038612	Moberly Confluence - upstream	Sep 2008	2014
MobUP2	2038616	Moberly Confluence - upstream	Sep 2008	2014
MobDN1	2038622	Moberly Confluence - downstream	Sep 2008	2014
MobDN1BU	2038576	Moberly Confluence - downstream	Sep 2008	2014
PineUP1	2038624	Pine Confluence - upstream	Sep 2008	2014
PineUP2	9767572	Pine Confluence - upstream	May 2011	2017
PineDN1	2225322	Pine Confluence - downstream	Sep 2008	2014
PineDN1BU	9762095	Pine Confluence - downstream	July 2011	2017

Appendix VI. Summary of temperature logger deployment dates and anticipated replacement dates.