

Peace River Water Use Plan

Peace River Baseline TDGP/Temperature

GMSWORKS-2

Year 10 Monitoring Program - Annual Report

January 2018 to December 2018

Diversified Environmental Services Box 6263, Fort St. John, B.C. V1J 4H7

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PEACE RIVER WATER USE PLAN IMPLEMENTATION PROGRAM

PEACE RIVER BASELINE TDGP/TEMPERATURE GMSWORKS-2 YEAR 10 MONITORING PROGRAM - ANNUAL REPORT January 2018 to December 2018

Prepared for: BC HYDRO 6911 Southpoint Drive, 11th Floor Burnaby, BC V3N 4H8

Prepared by:
Diversified Environmental Services
Box 6263
Fort St. John, BC
V1J 4H7

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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 10 (Jan 01, 2018 to Dec 31, 2018).

In situ reference temperatures were recorded at the time of each field download event using a YSI® multi-parameter meter, for comparison to the corresponding hourly logger readings. Mean calibration errors for all temperature loggers were ≤ 0.3 °C.

Results of Year 10 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.

Some logistical problems were encountered in Year 10, primarily associated with ice flows in late March and early April 2018, and floating debris resulting from flood events in mid-May and early June, 2018. Short-term data gaps were observed at some stations located immediately downstream of the Halfway, Moberly and Pine rivers due to loggers becoming temporarily stranded near the waterline by out-flowing ice and large woody debris. Data gaps were generally filled by functioning back-up loggers at these locations. A technical problem with the HoboTM optical transfer shuttle resulted in a failure to correctly re-launch some loggers during the January 2018 download. This caused the loss or corruption of several data files between January and April of Year 10.

No spill events occurred in Year 10 and no TDGP recorders were deployed.

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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 (PSP) 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.

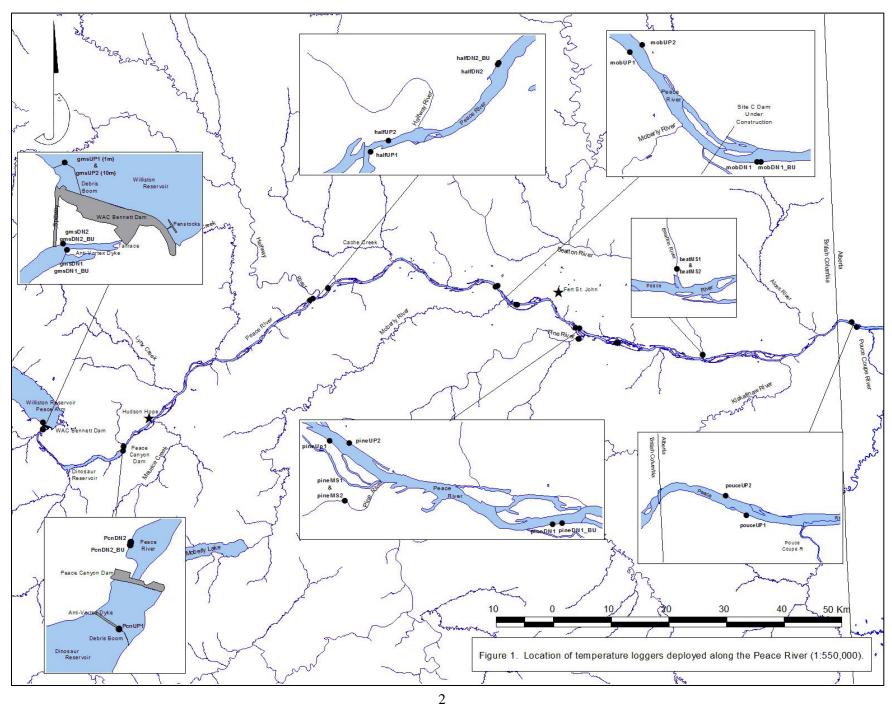
The objectives of this program are to collect data on spatial and temporal variations in water temperature between the WAC Bennett Dam forebay (Williston Reservoir) and a point 6.5 km downstream of the Pine River confluence for up to 10 years, and to maintain TDGP data loggers and related equipment for immediate deployment in the event of a spill at either the Gordon M. Shrum (GMS) or Peace Canyon (PCN) generating stations that is likely to meet the PSP criteria (2 days at 1,500cms or 500cms for 7+ days at PCN; 205cms for 2 days or more at GMS). This report summarizes data collection activities completed during Year 10 of the monitoring program.

2.0 METHODS

Temperature data presented in this summary were recorded between January 01, 2018 and December 31, 2018.

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.

By late in Year 3, monitoring site configuration had been revised to include 21 data loggers at 18 monitoring sites. This configuration was maintained throughout Years 4 to 10. A summary of temperature monitoring station location information as of the end of Year 10 appears in Appendix I. A description of site configuration changes prior to Year 3 can be found in DES 2013.

In April 2016, six additional temperature loggers were added at 3 monitoring sites in the project area at the request of BC Hydro's Site C project (Fig. 1). These included 2 loggers on the left downstream bank of the lower Pine River mainstem (pineMS1 and pineMS2), 2 loggers on the left downstream bank of the lower Beatton River mainstem (beatMS1 and beatMS2), and 2 loggers on the left and right downstream banks of the Peace River, approximately 3 km upstream of the confluence with the Pouce Coupe River (pouceUP1 and pouceUP2). Although these additional sites are maintained and downloaded in conjunction with the Peace WUP monitoring program, results are reported in a separate summary report submitted to the Site C project. For information purposes, monitoring site details for the 6 additional loggers appear in Figure 1 and Appendices I, III and V.

Temperature loggers were programmed to record water temperature (°C) at 1 hour intervals throughout Year 10. 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 3.18 mm stainless steel cable or 3.5 mm (7/32") steel chain.

Temperature data recorded and stored on each logger during 2018 were downloaded at approximately 3 month intervals 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 YSI® Professional Plus handheld multi-parameter instrument (Model No. E-528-ProPlus) for comparison to the corresponding hourly logger readings (within 30 minutes of reference temperature).

Monitoring sites located within the downstream influence of the Halfway, Moberly, and Pine rivers have proven more susceptible to dislodgement by passing ice and debris and are inspected more frequently during the spring and summer, particularly after significant high water events (halfDN2, halfDN2BU, mobDN1, mobDN1BU, pineDN1, pineDN1BU). In addition to scheduled download events, temperature loggers at some Peace River mainstem locations were visually checked and repositioned by DES staff during the course of activities unrelated to the temperature monitoring program.

Data files were exported as .csv files using Onset® Hoboware Pro software (Ver. 3.7.16), amalgamated into single Excel worksheets for each data logger, and plotted relative to time. Readings representing air temperature during periods of logger stranding above the waterline have been removed from data displayed graphically in this summary report.

2.1.1 Year 10 Site Logistics

Occasional stranding of loggers above the waterline during Year 10 was largely associated with ice flows originating from the break-up of the Halfway, Moberly, Pine and Beatton rivers and the accumulation of debris on tether cables during tributary spring freshet and storm-related flood events in late June and July 2018. To partially alleviate this issue, the stainless steel cable tether of three of the downstream logger units was replaced with 3.5 mm steel chain (halfDN2BU, mobDN1, pineDN2BU).

Heavy snowfalls, extreme cold temperatures, and ice accumulation in January and February 2019 combined to make boating on the Peace River difficult resulting in the postponement of the download of several loggers. These downloads were completed in mid-March 2019 when favourable conditions provided a window of opportunity.

A technical problem with a replacement HoboTM optical transfer shuttle resulted in the loss or corruption of data files during the first quarter of Year 10. The shuttle failed to correctly re-launch some loggers during the January 2018 download session, resulting in an absence of data at some stations between January and April 2018. The problem was not diagnosed until after examination of

the files following the April 2018 download. The applicable loggers were then re-launched in April after immediate replacement of the faulty shuttle.

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. None of the TDGP monitors were deployed in 2018.

3.0 RESULTS AND DISCUSSION

3.1 Temperature Monitoring

Reference temperatures recorded during download events are presented in Appendix III along with corresponding logger temperatures and indicated error values. None of the loggers in use in 2018 exhibited a correctable zero error greater than 0.3°C.

An inconsistent reference temperature discrepancy (0.7°C) at Beatton River mainstem logger beatMS2 was attributed to localized variations between the time of download and the time of the associated hourly reading, resulting from extreme low flow and shallow water depth. This discrepancy was not believed to be a logger calibration error.

Several loggers were replaced in Year 10, as they were approaching the end of their predicted lifespan of six years or were recording low voltage readings. Logger serial numbers listed in Appendix I correspond to the units in use at the time of the last quarterly downloads completed in January and March 2019.

A summary of temperature data collection results and related conditions and limitations are discussed in the following 6 sections, which correspond to the 6 major generating station and tributary features. Download Information Forms completed during each download are provided in Appendix IV.

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 (gmsUP1) and the second at a depth of 10 m (gmsUP2). Both gmsUP1 and gmsUP2 data files were corrupted by faulty launches by the Hobo optical shuttle in April 2018 resulting in the loss of data from April 19 to April 25 (Fig. 2). Aside from this brief period, both loggers recorded seamless water temperature data in Year 10. Although seasonal thermal stratification of Williston Reservoir is evident, the relatively small temperature differential between the 2 loggers (mean=0.2°C) suggests the primary thermocline lies deeper than 10 m. Maximum temperature differentials up to 3.4°C were recorded during a period of significant daytime surface warming during the beginning of August, when annual ambient temperatures peaked. Temperature profiles recorded further up the Peace Reach during unrelated work in 2017 and 2018 indicated significant thermal stratification between 20 m and 26 m (B. Culling, pers. obs.).

Sudden and short term declines in water temperature were recorded by logger gmsUP2 in mid-September and early October 2018. These sharp declines correspond to heavy rain and snow fall events and a possible premature breakdown of the thermocline in 2018.

The GMS tailrace monitoring sites are located on opposite banks, approximately 700 m downstream of the outflow manifolds. Logger gmsDN1 records the temperature of water flowing from the south tailrace manifold, which originates from the shallowest penstock depth. Logger gmsDN2 samples water from the north tailrace manifold, which originates from a deeper withdrawal point. The tethered steel capsule at both stations contains a back-up logger in addition to the primary unit (gmsDN1BU and gmsDN2BU). The data files for all 4 loggers for the period between January 10 and April 30, 2018 were corrupted by a faulty launch by the Hobo optical shuttle in January 2018 and could not be recovered. From April 30 to December 31, 2018, all 4 loggers collected continuous data for the remainder of Year 10.

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. 3). Temperatures recorded at gmsDN1 and gmsDN2 exhibit a wide range of hourly and daily fluctuations during the summer period compared to gmsUP1, due to operational changes in water intake for power generation and maintenance activities.

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, located approximately 450 m upstream of the dam face. The pcnUP1 data file for the period between January 10 and April 30, 2018 was corrupted by a faulty launch by the Hobo optical shuttle in January 2018 and could not be recovered. Continuous temperature data were recovered for the remainder of Year 10 (April 30 to December 31, 2017).

Peace Canyon Tailrace logger pcnDN2BU recorded continuous data throughout Year 10. The pcnDN2 data file for the period between January 10 and April 30, 2018 was corrupted by a faulty launch by the Hobo optical shuttle in January 2018 and could not be recovered. Continuous temperature data were recovered for the remainder of Year 10 (April 30 to December 31, 2017). A comparison of PCN tailrace temperature (pcnDN2BU) and GMS tailrace temperature (mean of gmsDN1 and gmsDN2) indicates a relatively small temperature change through Dinosaur Reservoir during all seasons (Fig. 4). For example, no temperature difference was recorded in winter (December through January 10) and a mean differential of 0.4°C was recorded in summer (June through August). Figure 4 also illustrates some thermal stratification of the Peace Canyon forebay associated with surface warming during peak ambient temperatures between the late June and early August 2018. For example, PCN forebay temperatures at 1 m depth (pcnUP1) were as much as 12.1 °C warmer than water exiting the PCN powerhouse (pcnDN2BU) between June 22 and July 27, 2018.

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. Halfway upstream stations were maintained on opposing banks throughout Year 10 (halfUP1 and halfUP2). The upstream logger halfUP1 collected seamless data for the periods January 1 to April 25 and July 15 to January 31, 2018. The data for the intervening period April 25 to July 15, 2018 could not be recovered as the logger capsule and tether cable were removed from the anchor location by persons unknown. The halfUP2 data file for the period from April 25 to 30 was corrupted by a faulty launch by the Hobo optical shuttle in April 2018. Seamless temperature data were recovered for logger halfUP2 for the periods preceding and following April 25 to 30, 2018. No cross-channel differential was recorded between the opposing upstream stations.

Both Halfway downstream loggers (halfDN2 and halfDN2BU) were located on the left downstream bank within the influence of Halfway River inputs. Both halfDN2BU

data files for the period from April 25 to 30 were corrupted by faulty launches by the Hobo optical shuttle in April 2018. In July 2018, extremely low discharge from BC hydro facilities upstream combined with localized channel configuration, resulted in near-stagnant flow conditions at the halfDN2 and halfDN2BU logger sites. In order to ensure that both loggers were positioned in an area with adequate stream flow, halfDN2 and halfDN2BU loggers were moved approximately 220 m downstream during the July 2018 download session. Logger halfDN2 was partially swung into shallow water by ice and debris from the Halfway River in early December 2018 and intermittently recorded air temperature during periods of low flow prior to the January 2019 download (Fig. 5). Logger halfDN2BU was swung into shallow water by debris from the Halfway River in early June, after the April 2018 download session, and again in late July, soon after the July 2018 download session. Throughout these periods, logger halfDN2BU frequently recorded air temperature during periods of low flow prior to the October 2018 download. During the October 2018 download session, the tether cable of halfDN2BU was replaced with heavier chain which resulted in no subsequent exposures.

As in previous years, Peace River temperature values recorded at stations upstream and downstream of the Halfway River confluence differed markedly. Temperatures collected downstream of the confluence exhibited a higher degree of daily and annual variability (Fig. 5). Halfway River inputs typically have a cooling effect during the winter (October through April) and a warming effect during the summer (May through September). Temperatures within the Halfway River mainstem upstream of its confluence with the Peace are not recorded as part of this project.

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 throughout Year 10 (mobUP1 and mobUP2). The mobUP1 and mobUP2 data files for the period April 27 to 30 were corrupted by a faulty launch by the Hobo optical shuttle in April 2018 and could not be recovered. Excluding this period, mobUP2 recorded seamless water temperature data in Year 10. Logger mobUP1 was also partially swung to shore by ice or debris prior to the April 27, 2018 download session and recorded ambient air temperature intermittently between April 4 and 27, 2018. Excluding periods when logger mobUP1 was exposed above the water, no cross-channel differential was recorded in 2018.

The Moberly downstream logger and downstream back-up logger are both located on the south bank of the Peace River, within the influence of outfall from the Moberly River. Both loggers also lie immediately downstream of the footprint of the Site C dam which is presently under construction. Logger mobDN1 was found partially swung to shore by ice and exposed at low water levels during the April 27, 2018 download session and intermittently recorded ambient air temperatures between February 8 and April 27, 2018. After April 27, logger mobDN1 recorded continuous water temperature data in 2018. During the last download session in January 2019, the logger was found swung to shore again. The stainless steel tether cable was replaced with chain in order to minimize the risk of debris and ice dislodging the logger. The mobDN2BU data file was corrupted by a faulty launch by the Hobo optical shuttle in January 2018 resulting in the loss of data from January 4 to April 27. Logger mobDN1BU was found partially pulled to shore by persons unknown and exposed at low water levels during the July 11, 2018 download session and appears to have intermittently recorded ambient air temperatures between June 6 and July 11, 2018. Moberly downstream temperature data in Figure 6 are presented as a composite of data from the pineDN1 and pineDN1BU loggers (pineDN-COMP).

As in previous years, Peace River water temperatures recorded within the influence of the Moberly River were cooler than the Moberly upstream stations from January through March and warmer than the upstream stations from May through July in Year 10 (Fig. 6). The influence of the Moberly River is significantly less than that of the Halfway River and appears to correspond to the difference in relative contributed volumes. Temperatures within the Moberly River upstream of its confluence with the Peace River are not recorded as part of this project.

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 10, upstream stations were maintained on opposing banks (pineUP1 and pineUP2) and both downstream loggers (pineDN1 and pineDN1BU) were located on the south river bank, within the influence of inputs from the Pine River. The pineUP1 data file for the period of January 4 to April 27 was corrupted by a faulty launch by the Hobo optical shuttle in April 2018 and could not be recovered. Excluding this period, pineUP1 recorded continuous water temperature data in Year 10. The data file for logger pineUP2 during the periods of January 1-8 and April 27-30 was corrupted by faulty launches by the Hobo optical shuttle in January and April 2018, respectively and could not be recovered. During the October 2018 download session, logger pineUP2 was found partially pulled to shore by

persons unknown. As a result, logger pineUP2 was frequently exposed from September 22 to October 3, 2018. A slight cross-channel differential of 0.4°C was recorded between July 1 and August 31, 2018.

The pineDN1 data file for the period of January 4 to April 27 was corrupted by a faulty launch by the Hobo optical shuttle in January 2018 and could not be recovered. Excluding this period, logger pineDN1 recorded continuous water temperature data for the remainder of Year 10. Logger pineDN1BU recorded continuous water temperature data throughout most of Year 10 with the exception of brief periods when the logger was exposed during periods of low water discharge from BC Hydro facilities upstream in late April and early June 2018. Pine upstream and downstream temperature data in Figure 7 are presented as composites of data from loggers pineUP1 and pineUP2 (pineUP-COMP) and loggers pineDN1 and pineDN1BU (pineDN-COMP).

Temperature values recorded within the downstream influence of the Pine River were typically cooler than the Pine River upstream stations from late September through December and slightly warmer from July through mid-September (Fig. 7). A temperature monitoring station was maintained in the lower Pine River mainstem during Year 10 at the request of the BC Hydro Site C project. Results are discussed in a separate Site C project summary report.

Figure 8 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 (pineUP-COMP) during 2018 and Figure 9 compares daily mean ambient air temperature at the Fort St. John airport with daily mean Peace River water temperature at the Pine river confluence (pineUP-COMP). Data appearing in these figures include Halfway and Pine confluence stations not directly influenced by their respective tributary inputs. The graphs illustrate 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 early April and mid-October, with gradients inverting on either side of these dates to form the typical annual pattern.

Figures 10 and 11 represent temporal comparisons of daily mean water temperature during Year 10 (2018) against the average of 2009 to 2017 daily mean temperatures for WAC Bennett Dam tailrace (gmsDN2) and Pine River confluence (pineUP-COMP) sites, respectively. Water temperatures

recorded in the WAC Bennett Dam tailrace (north manifold) show some deviation from the 2009-2017 average. Variability in tailrace temperature is largely due to operational factors at the GMS generating station and may include variations in reservoir elevation and changes in volume contribution from hypolimnetic and epilimnetic withdrawal at various generating outputs. An analysis of these influences is beyond the scope of this summary report. Downstream Peace River water temperatures recorded immediately above the Pine River confluence (pineUP-COMP) during Year 10 generally track the 2009-2017 average, with occasional variation due to weather events including above and below normal periods in ambient temperature and increased tributary contributions during precipitation events.

4.0 RECOMMENDATIONS

The 6.35 mm galvanized cable used during the initial years of the program was proven to have low resistance to corrosion. With the exception of a few locations where segments of galvanized cable remain well above the waterline, all the tethers have been replaced with stainless steel cable. The remaining galvanized cable sections will be monitored for corrosion during Year 11.

Monitoring sites downstream of major tributary inputs such as the Halfway, Moberly and Pine rivers have proven the most susceptible to dislodgement by ice and debris flow. In Year 10, the stainless steel cable tethers of loggers halfDN2BU, mobDN1, and pineDN1 were replaced with heavier chain which conforms to the river bottom and appears less susceptible to debris accumulation and dislodgement.

The battery life of the Tidbit v2 Model #UTBI-001 temperature sensors is estimated at approximately 5-6 years. Scheduled replacement of units should continue in 2019 as per the table presented in Appendix V.

In 2015, aluminum information tags reading "DATA RECORDER, PLEASE DO NOT DISTURB" were attached to the tether cables of loggers potentially accessible to the public and previously subject to tampering by curious persons. These tags will be monitored and maintained though Year 11.

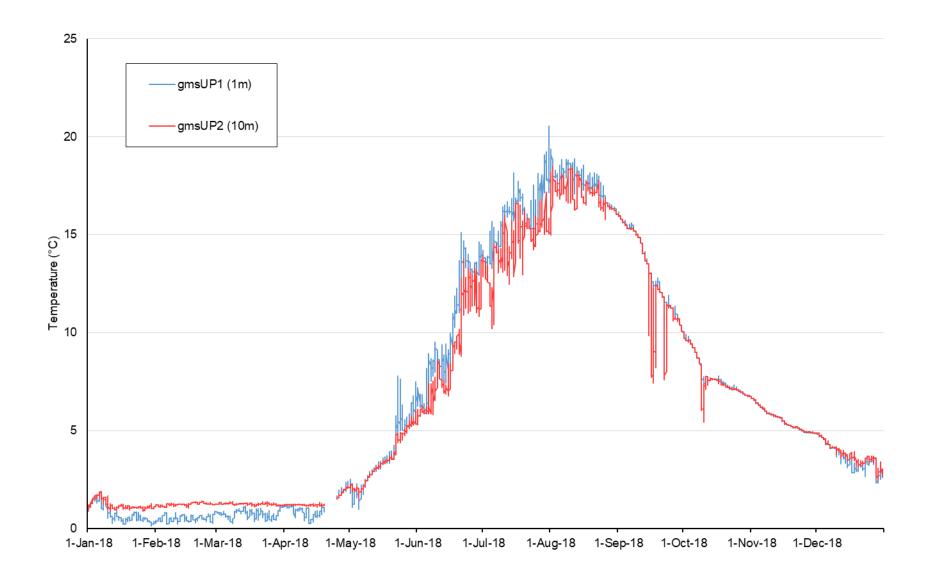


Figure 2. Comparison of hourly water temperature at WAC Bennett Dam forebay station from 1 m depth (gmsUP1) and 10 m depth (gmsUP2) during Year 10, January 01, 2018 – December 31, 2018.

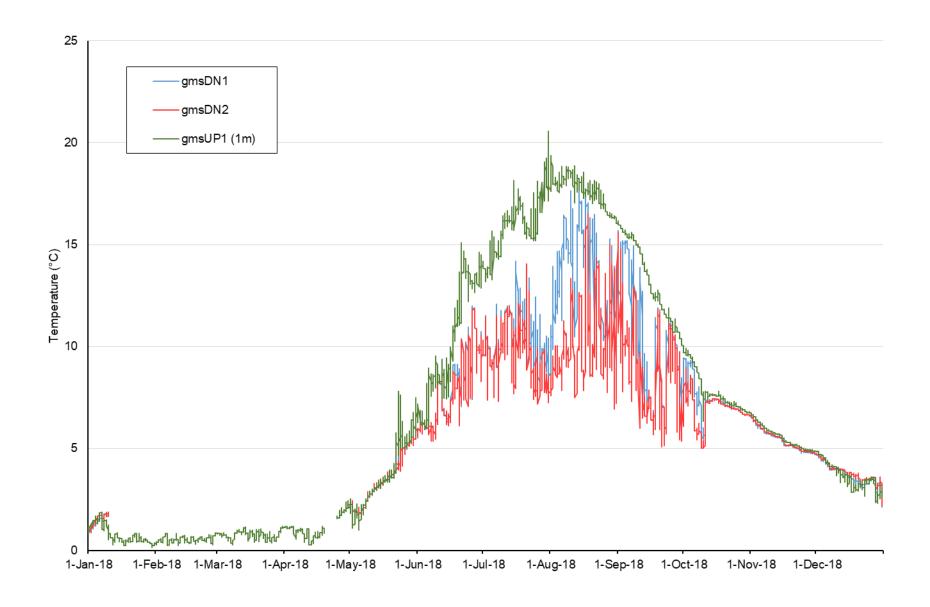


Figure 3. Comparison of hourly water temperature at WAC Bennett Dam forebay surface (gmsUP1), and WAC Bennett Dam tailrace (gmsDN1 and gmsDN2) during Year 10, January 01, 2018 – December 31, 2018.

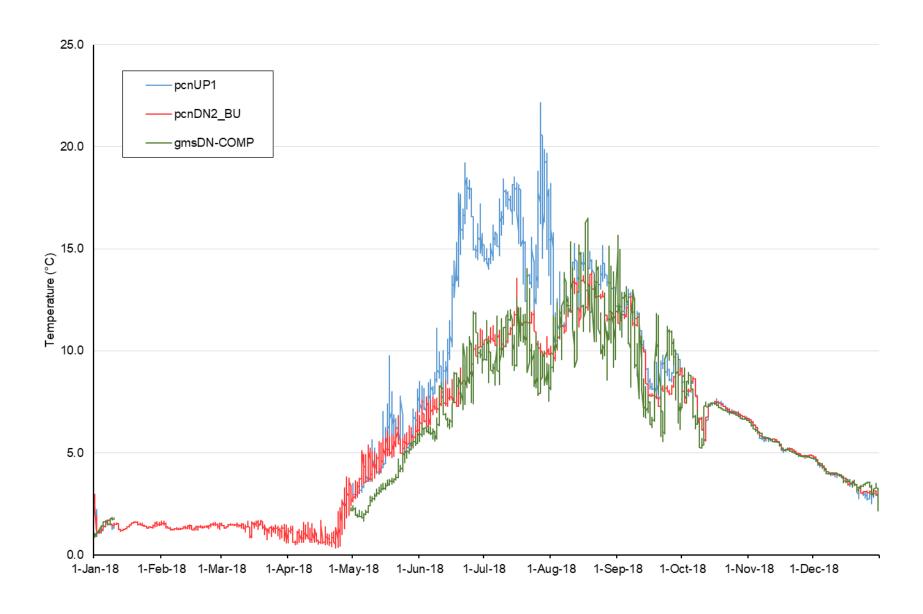


Figure 4. Comparison of hourly water temperature at Peace Canyon forebay surface (pcnUP1), Peace Canyon tailrace (pcnDN2), and WAC Bennett Dam tailrace (gmsDN-COMP) during Year 10, January 01, 2018 – December 31, 2018.

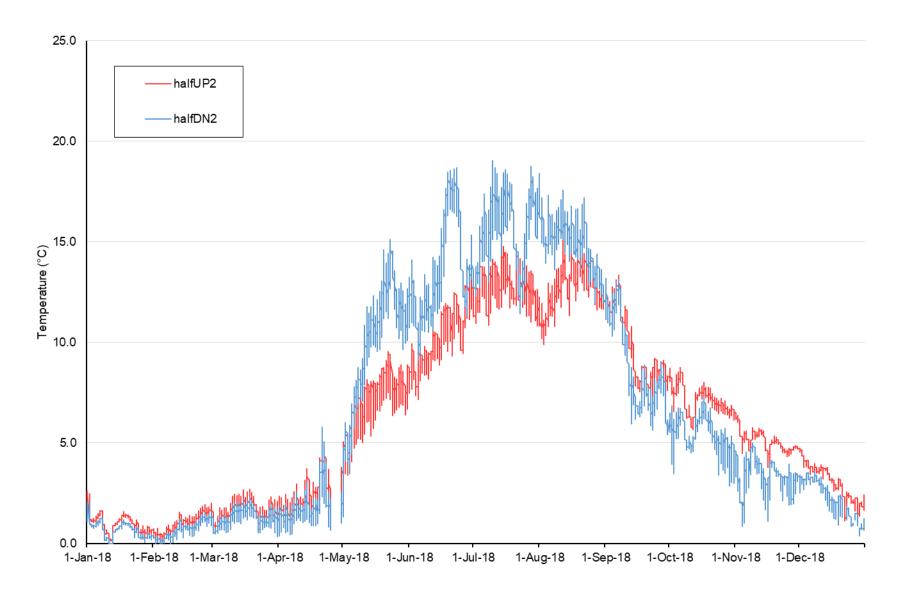


Figure 5. Comparison of Peace River hourly water temperature upstream of Halfway River confluence (halfUP2) and downstream of Halfway River confluence (halfDN2) during Year 10, January 01, 2018 – December 31, 2018.

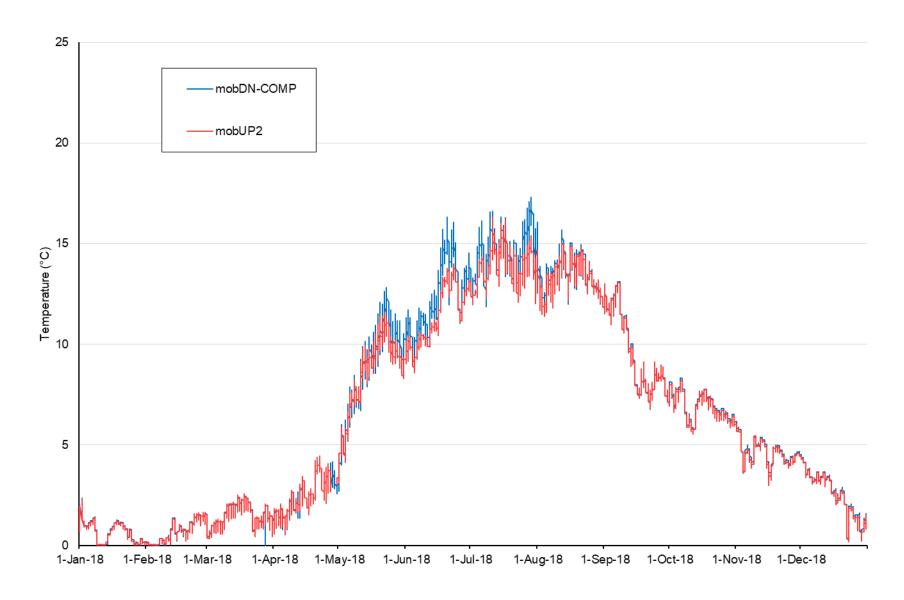


Figure 6. Comparison of Peace River hourly water temperature upstream of Moberly River confluence (mobUP2) and downstream of Moberly River confluence (mobDN-COMP) during Year 10, January 01, 2018 – December 31, 2018.

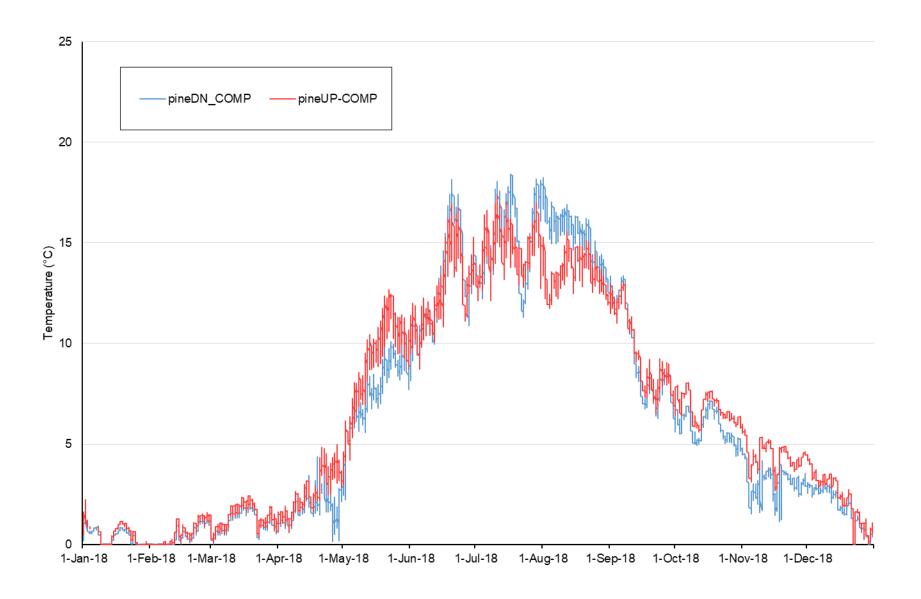


Figure 7. Comparison of Peace River hourly water temperature upstream of Pine River confluence (pineUP-COMP) and downstream of Pine River confluence (pineDN-COMP) during Year 10, January 01, 2018 – December 31, 2018.

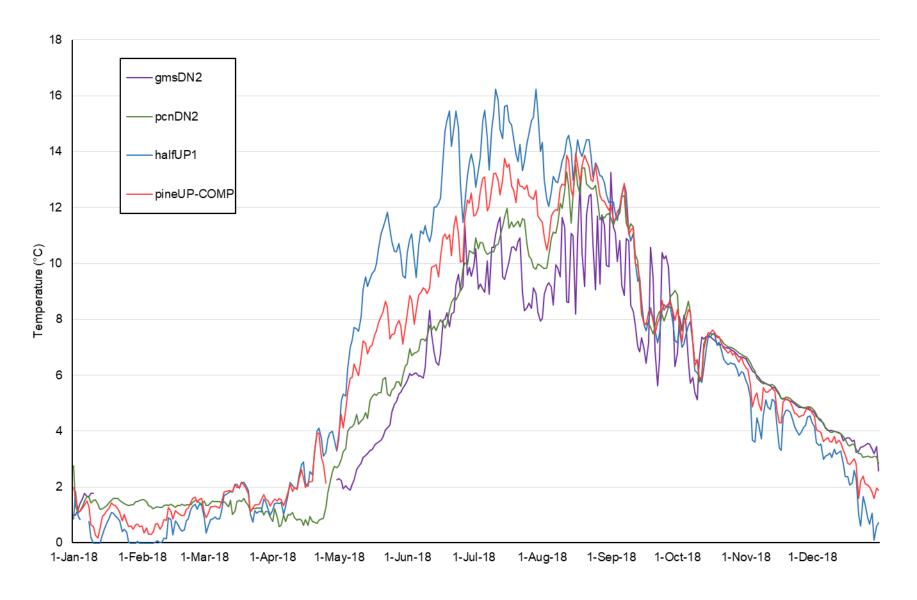


Figure 8. Daily mean Peace River water temperature gradient from WAC Bennett Dam tailrace (gmsDN2), downstream to Pine River confluence (pineUP-COMP), during Year 10, January 01, 2018 – December 31, 2018.

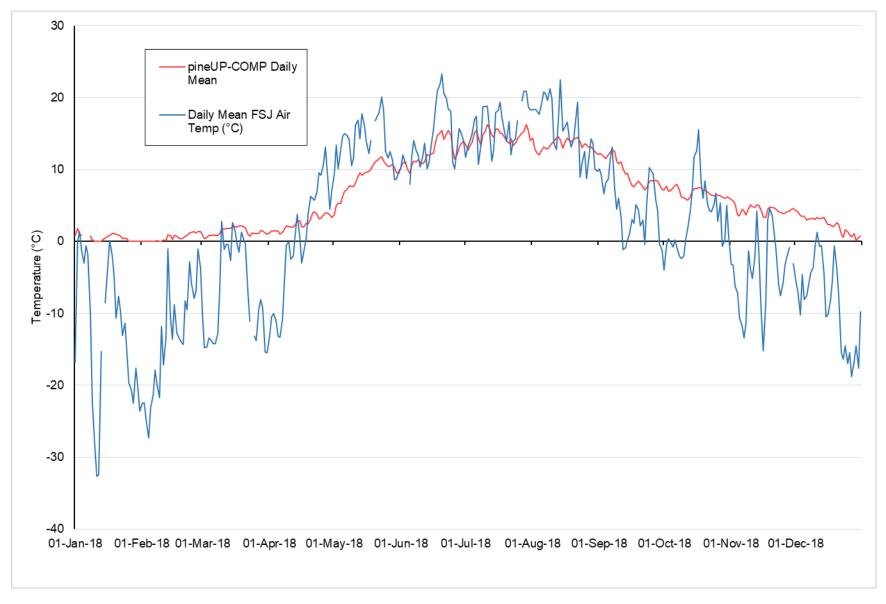


Figure 9. Comparison of Peace River daily mean water temperature upstream of the Pine River confluence (pineUP-COMP) with daily mean ambient air temperature at the Fort St. John airport during Year 10, January 01, 2018 to December 31, 2018.

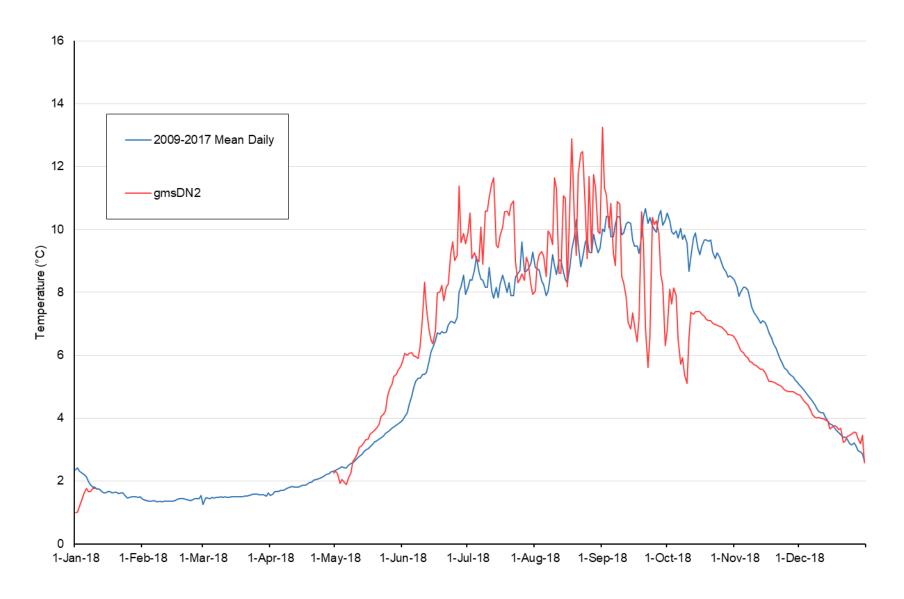


Figure 10. Comparison of Year 10 daily mean water temperature at WAC Bennett Dam tailrace north manifold (gmsDN2) with average of 2009 to 2017 daily mean water temperature at gmsDN2.

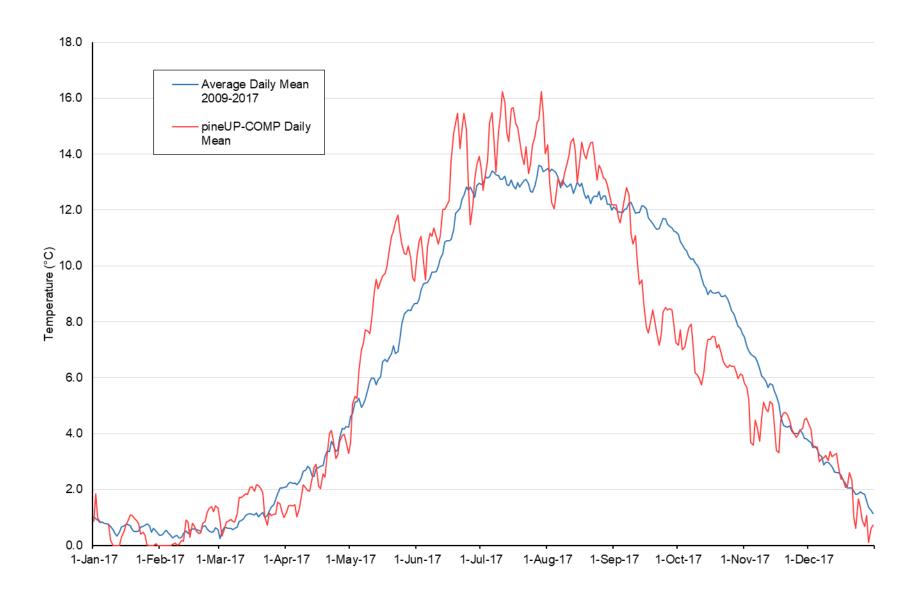


Figure 11. Comparison of Year 10 daily mean water temperature upstream of the Pine River confluence (pineUP-COMP) with average of 2009 to 2017 daily mean water temperature at pineUP-COMP.

REFERENCES

- BC Hydro. 2010. Peace River Water Use Plan; monitoring program terms of reference Peace River Baseline TGP/Temp. BC Hydro, Vancouver, BC. 7pp.
- DES (Diversified Environmental Services). 2013. Peace River Water Use Plan Peace River Baseline TDGP/Temperature GMSWorks-2 Year 4 Monitoring Program Interim Report January 2012 to December 2012. Prepare for BC Hydro, Vancouver, BC. 24pp + appendices.

Appendix I. Temperature monitoring station location information for Year 10, January 01, 2018 to December 31, 2018.

Site ID	Serial #	Location	UTM (Z East	one 10) North	Comment
gmsUP1	10676155	WAC Bennett Forebay	548841	6209022	steel buoy; 1 m depth
gmsUP2	10676160	WAC Bennett Forebay	548841	6209022	steel buoy; 10 m depth
gmsDN1	10635063	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN1BU	20332152	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN2	10669739	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
gmsDN2BU	20332121	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
pcnUP1	10635067	Peace Canyon Forebay	562710	6204068	anti-vortex log boom; 1 m depth
pcnDN2	10156317	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
pcnDN2BU	10635061	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
HalfUP1	20332123	Halfway Confluence - upstream	595165	6230094	south bank; spruce tree
HalfUP2	20030829	Halfway Confluence - upstream	595569	6230541	north bank; spruce tree
HalfDN2	10669748	Halfway Confluence - downstream	598313	6232378	north bank; willow
HalfDN2BU	10156314	Halfway Confluence - downstream	598286	6232332	north bank; willow
MobUP1	10887852	Moberly Confluence - upstream	627158	6232349	south bank; alder
MobUP2	10669754	Moberly Confluence - upstream	627501	6232563	north bank; spruce tree
MobDN1	10676146	Moberly Confluence - downstream	630583	6229281	south bank; alder
MobDN1BU	10676147	Moberly Confluence - downstream	630402	6229303	south bank; alder
PineUP1	10669747	Pine Confluence - upstream	641034	6225375	south bank; alder
PineUP2	20332129	Pine Confluence - upstream	641653	6225304	north bank; balsam poplar
PineDN1	20332124	Pine Confluence - downstream	648073	6222796	south bank; alder
PineDN1BU	10893055	Pine Confluence - downstream	648362	6222823	south bank; alder
PineMS1	10893069	Pine Mainstem - upstream of Peace	641762	6223599	north bank; steel piling
PineMS2	20097150	Pine Mainstem - upstream of Peace	641762	6223599	north bank; steel piling
BeatMS1	20322122	Beatton Mainstem - upstream of Peace	663101	6220759	east bank; spruce
BeatMS2	20030828	Beatton Mainstem - upstream of Peace	663101	6220759	east bank; spruce
PouceUP1	10635062	Pouce Coupe confluence - upstream	*316873	6225211	south bank; birch; *UTM Zone 11
PouceUP2	10893068	Pouce Coupe confluence - upstream	*315887	6226158	south bank; birch; *UTM Zone 11

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

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 III. Reference temperature values and corresponding logger fix values recorded during download events in Year 10, January 01, 2018 to December 31, 2018.

Logger ID	Date	Fix Temp	Ref Temp	Error
gmsUP1	19-Apr-18	0.8	0.8	0.0
(SN 10676155)	12-Jul-18	16.2	16.4	-0.2
	22-Oct-18	7.2	7.1	-0.1
gmsUP2	19-Apr-18	1.1	1.2	0.1
(SN 10666160)	12-Jul-18	13.8	13.8	0.0
	22-Oct-18	7.2	7.1	0.1
gmsDN1	10-Jan-18	1.8	1.7	0.1
(SN 10635063)	12-Jul-18	11.6	11.9	-0.3
	22-Oct-18	7.0	7.1	-0.1
gmsDN1_BU	10-Jan-18	1.9	1.7	0.2
(SN 2038613)	12-Jul-18	11.9	11.9	0.0
·	22-Oct-18	7.1	7.1	0.0
gmsDN2	10-Jan-18	1.8	1.7	0.1
(SN 10669739)	12-Jul-18	11.6	11.9	-0.3
,	22-Oct-18	7.0	7.1	-0.1
gmsDN2_BU	10-Jan-18	1.9	1.7	0.2
(SN 2038614)	12-Jul-18	11.8	11.9	-0.1
(SN 20332121)	22-Oct-18	7.1	7.1	0.0
pcnUP1	10-Jan-18	1.4	1.1	0.3
(SN 10635067)	12-Jul-18	17.1	17.0	0.1
,	22-Oct-18	7.2	7.3	-0.1
pcnDN2	10-Jan-18	1.2	1.3	-0.1
(SN 10156317)	12-Jul-18	10.6	10.7	-0.1
,	22-Oct-18	7.1	7.1	0.0
pcnDN2_BU	10-Jan-18	1.5	1.3	0.2
(SN 10635061)	12-Jul-18	10.7	10.7	0.0
(22-Oct-18	7.1	7.1	0.0
halfUP1	3-Jan-18	0.9	0.9	0.0
(SN 20097151)	25-Apr-18	2.3	2.5	-0.2
(SN 20322123)	23-Oct-18	6.6	6.6	0.0
halfUP2	3-Jan-18	1.2	0.9	0.3
(SN 20030829)	25-Apr-18	2.4	2.4	0.0
, ,	14-Jul-18	11.9	11.7	0.2
	23-Oct-18	6.7	6.6	0.1

Appendix III. Reference temperature values and corresponding logger fix values recorded during download events in Year 10, January 01, 2018 to December 31, 2018, cont.

Logger ID	Date	Logger Temp	Reference Temp	Error
halfDN2	3-Jan-18	0.9	0.7	0.2
(SN 10669748)	25-Apr-18	2.2	2.2	0.0
	15-Jul-18	15.7	15.8	-0.1
	23-Oct-18	4.7	4.6	0.1
halfDN2_BU	3-Jan-18	1.0	0.7	0.3
(SN 10156314)	25-Apr-08	2.2	2.5	-0.3
	15-Jul-18	15.7	15.8	-0.1
	23-Oct-18	4.7	4.6	0.1
mobUP1	4-Jan-18	0.8	0.5	0.3
(SN 10887852)	27-Apr-18	3.4	3.2	0.2
,	11-Jul-18	14.8	14.9	-0.1
	19-Oct-18	6.9	6.9	0.0
mobUP2	4-Jan-18	0.8	0.5	0.3
(SN 10669754)	27-Apr-18	2.7	2.7	0.0
(0)	11-Jul-18	14.2	14.4	-0.2
	19-Oct-18	6.8	6.8	0.0
mobDN1	4-Jan-18	0.9	0.6	0.3
(SN 10676146)	27-Apr-18	3.1	2.8	0.3
(011 1001 01 10)	11-Jul-18	15.2	15.6	-0.4
	19-Oct-18	7.0	6.8	0.2
mobDN1_BU	4-Jan-18	0.8	0.6	0.2
(SN 10676147)	19-Oct-18	6.9	6.8	0.1
pineUP1	4-Jan-18	0.8	0.5	0.3
(SN10669747)	11-Jul-18	15.5	16.5	-1.0
(6.1.00001.1.)	19-Oct-18	6.9	6.9	0.0
pineUP2	27-Apr-18	3.3	3.3	0.0
(SN 9767573)	11-Jul-18	15.1	15.2	-0.1
(814 87 87 87 8)	19-Oct-18	6.9	6.9	0.0
pineDN1	4-Jan-18	0.6	0.3	0.3
(SN 10156319)	19-Oct-18	6.4	6.4	0.0
pineDN1_BU	4-Jan-18	0.6	0.3	0.3
(SN 10893055)	4-Jan-16 27-Apr-18	2.0	0.3 2.1	0.3 -0.1
(314 10083033)	27-Apr-16 11-Jul-18	2.0 17.5	2. i 17.7	-0.1 -0.2
	19-Oct-18	6.4	6.4	-0.2 0.0
	19-001-10	0.4	0.4	0.0

Appendix III. Reference temperature values and corresponding logger fix values recorded during download events in Year 10, January 01, 2018 to December 31, 2018, cont.

Logger ID	Date	Logger Temp	Reference Temp	Error
pineMS1	27-Apr-18	0.5	0.6	-0.1
(SN 10893069)	11-Jul-18	16.9	16.9	0.0
pineMS2	19-Oct-18	Exp	5.6	-
(SN 20097150)		'		
beatMS1	11-Jul-18	20.9	21.1	-0.2
(SN 10930722)	19-Oct-18	6.2	6.5	-0.3
beatMS2	27-Apr-18	2.4	2.4	0.0
(SN 20030828)	11-Jul-18	20.4	21.1	-0.7
	19-Oct-18	7.2	6.5	0.7
pouceUP1	17-Jan-18	0.3	0.1	0.2
(SN 10635062)	11-Jul-18	18.3	18.1	0.2
	18-Oct-18	7.6	7.6	0.0
pouceUP2	17-Jan-18	0.3	0.2	0.1
(SN 10893068)	11-Jul-18	18.0	18.2	-0.2

Appendix IV. Year 10 download information forms, January 01, 2018 to December 31, 2018.

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					KATUK			OWINE		VEC	RIVIA	IUNI	JRIVI
SITEID		gmsUP1	LOCA				S Forebay		BANK				
LOGGER TY		-	lbit	LOGGER			10676155		UTM		548	8841	6209022
DOWNLOAD	DATE	19	Apr	2018 DO	WNLOAD	TIME	13:19		CREW			ВС	TE
TEST RECO	RDER T	YPE	YSI	WATER	TEMP	0.8	AIR TEMP	9	ICECO	NDIT	TONS	Winte	er Ice Cover
					LO	GGER CO	NDITIONS						
WATER DE	EPTH	100	cm D	ISLODGED	no	RE	EASON						
BURIED	no		UNCTION				EIGHT ABOVE V	NATER		cm	TETHE	R TYPE	steel buoy
	1.2		0.12			COMMI				U.	1	V 1 .	Steer nacy
							1110						
Relaunch in	Anril 19	2018 fai	led due to	o faulty shutt	-ام								
Relaunched					16								
RPL#19	/ \p), <u></u>	ur n.c.	Tiumo									
No data Apri	il 20-25	due to far	ıltv shuttl	le.									
			4 <i>,</i>										
SITEID	-	gmsUP2	LOCA	TION		GMS	S Forebay		BANK				
LOGGER TY			lbit	LOGGER	SERIAL #		10676160		UTM		548	8841	6209022
DOWNLOAD			Apr	2018 DO			13:14		CREW		• • • • • • • • • • • • • • • • • • • •	BC	
TEST RECO			YSI		RTEMP	1.1	AIR TEMP	9	ICECO	TICIN	IONS		er Ice Cover
	-						NDITIONS		102	14-	10110	**	31 100 22
WATER DE	FPTH	1000	D	ISLODGED	no		EASON						
BURIED	no		UNCTION				EIGHT ABOVE V	NATER		cm	TETHE	RTYPE	steel buoy
						COMMI				Ü			0.00,
				, 									
Relaunch fai	iled in J	an 2018 d	ue to fau	Ity shuttle.									
Relaunched													
RPL#20		.,											
I													
SITEID	9	gms DN2	LOCA	TION		GMS T	ailrace RDB		BANK				north
SITE ID LOGGER TY		_	LOCA	TION LOGGER	SERIAL #		ailrace RDB 10669739		BANK UTM		548	3828	north 6207836
	/PE	Tic				‡					548	8828 BC	6207836
LOGGER TY	PE DDATE	Tic 27	lbit	LOGGER	WNLOAD	‡	10669739	9	UTM	NDIT			6207836
LOGGER TY DOWNLOAD TEST RECO	(PE D DATE PRDER T	Tic 27	lbit Apr YSI	LOGGER 2018 DO WATER	WNLOAD R TEMP	TIME 2.6 GGER CO	10669739 9:48 AIR TEMP	9	UTM CREW	NDIT			6207836 TE
LOGGER TY DOWNLOAD TEST RECO	(PE D DATE PRDER T	Tic 27 YPE	Apr YSI	LOGGER 2018 DOV WATER	WNLOAD R TEMP LOO	TIME 2.6 GGER CO	10669739 9:48 AIR TEMP INDITIONS EASON		UTM CREW		TIONS	BC	6207836 TE
LOGGER TY DOWNLOAD TEST RECO	(PE D DATE PRDER T	Tic 27 YPE	lbit Apr YSI	LOGGER 2018 DOV WATER	WNLOAD R TEMP LOO	2.6 GGER CO RE IF DRY, H	10669739 9:48 AIR TEMP NDITIONS EASON EIGHT ABOVE V		UTM CREW		TIONS		6207836 TE
LOGGER TY DOWNLOAD TEST RECO	(PE D DATE PRDER T	Tic 27 YPE	Apr YSI	LOGGER 2018 DOV WATER	WNLOAD R TEMP LOO	TIME 2.6 GGER CO	10669739 9:48 AIR TEMP NDITIONS EASON EIGHT ABOVE V		UTM CREW		TIONS	BC	6207836 TE none
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LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED Back-up logg	PED DATE PROBER T EPTH no ger gms	Tic 27 TYPE 150 FDN2-BU 2	Apr YSI cm D UNCTION	LOGGER 2018 DOWNATER WATER WISLODGED NAL wet	WNLOAD R TEMP LOC no I	2.6 GGER CO RE IF DRY, HI	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE V	WATER	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED Back-up logg Both downlo	PED DATE D DATE RDER T EPTH no ger gms pads inc	Tic 27 TYPE 150 F SDN2-BU 2 dicated as	Apr YSI cm D UNCTION	LOGGER 2018 DOWNATER SISLODGED NAL wet In same caps to data due to	WNLOAD R TEMP LOC no I sule 09:49 o faulty sh	TIME 2.6 GGER CO RE IF DRY, HI COMMI	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE VENTS	WATER	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED Back-up logg Both downlo Cable ok (st	D DATE D DATE PROBERT REPTH no ger gms bads inclass	Tic 27 TYPE 150 F SDN2-BU 2 dicated as steel cab	Apr YSI cm D UNCTION 2038614 in OK but n le section	WATER 2018 DOWNATER WATER SISLODGED NAL wet In same caps to data due to a attached to	WNLOAD R TEMP LOC no I sule 09:49 o faulty sh	TIME 2.6 GGER CO RE IF DRY, HI COMMI	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE VENTS	WATER	UTM CREW		TIONS	BC	6207836 TE none
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Back-up logo Both downlo Cable ok (st Primary Logo SITE ID LOGGER TY DOWNLOAD	PEDDATE DDATE DDATE DDATE DDATE DDATE DDATE	Tic 27 TYPE 150 F SDN2-BU 2 dicated as steel cab #11, SN 1 Tic 30	cm DUNCTION 2038614 ii OK but n le sectior 0669739	LOGGER 2018 DOV WATER WISLODGED NAL wet In same caps to data due to attached to @ 09:48 TION LOGGER 2018 DOV	WNLOAD R TEMP LOC no I sule 09:49 o faulty sh galvanize	TIME 2.6 GGER CO RE IF DRY, HI COMMI committeed cable a	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE V ENTS unch in January 2 round rock) Failrace LDB 10635063 10:00:08	2018	UTM CREW ICE CO		TETHER	BC R TYPE	6207836 TE none rock
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Back-up logo Both downlo Cable ok (st Primary Logo SITE ID LOGGER TY DOWNLOAD	PEDDATE DDATE DDATE DDATE DDATE DDATE DDATE	Tic 27 TYPE 150 F SDN2-BU 2 dicated as steel cab #11, SN 1 Tic 30	cm DUNCTION 2038614 ii OK but n le sectior 0669739 LOCA	LOGGER 2018 DON WATER SISLODGED NAL wet In same caps to data due to attached to @ 09:48 TION LOGGER 2018 DON WATER	WNLOAD R TEMP LOC no locule 09:49 of aulty sh galvanize SERIAL # WNLOAD R TEMP	GGER CO RE IF DRY, HI COMMI	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE V ENTS unch in January 2 round rock) Failrace LDB 10635063 10:00:08	2018	UTM CREW ICE CO	cm	TETHER	R TYPE	6207836 TE none rock 6207761 TE
Back-up logo Both downlo Cable ok (st Primary Logo SITE ID LOGGER TY DOWNLOAD	PEDDATE RDER T	Tic 27 TYPE 150 F SDN2-BU 2 dicated as steel cab #11, SN 1 gms DN1 Tic 30 TYPE 200	cm DUNCTION 2038614 ii OK but n le sectior 0669739 LOCA	LOGGER 2018 DON WATER SISLODGED NAL wet In same caps to data due to attached to @ 09:48 TION LOGGER 2018 DON WATER	WNLOAD R TEMP LOG no lucule 09:49 of aulty sh galvanize SERIAL # WNLOAD R TEMP LOG no	GMS T GGER CO RE IF DRY, HI COMMI COMMI GMS T GMS T GMS T GRE 2.4 GGER CO RE	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE V ENTS Unch in January 1 Tound rock) Failrace LDB 10635063 10:00:08 AIR TEMP INDITIONS EASON	2018 5 9	UTM CREW ICE CO	cm	SOI 548	BC R TYPE uth 8881 BC	6207836 TE none rock 6207761 TE
Back-up logg Both downlo Cable ok (st Primary Logg SITE ID LOGGER TY DOWNLOAL TEST RECO	PEDDATE RDER T	Tic 27 TYPE 150 F SDN2-BU 2 dicated as steel cab #11, SN 1 gms DN1 Tic 30 TYPE 200	cm DUNCTION 2038614 ii OK but n le sectior 0669739 LOCA	LOGGER 2018 DON WATER SISLODGED NAL wet In same caps to data due to attached to @ 09:48 TION LOGGER 2018 DON WATER	WNLOAD R TEMP LOG no lucule 09:49 of aulty sh galvanize SERIAL # WNLOAD R TEMP LOG no	GMS T GGER CO RE IF DRY, HI COMMI COMMI GMS T GMS T GMS T GRE 2.4 GGER CO RE	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE V ENTS Unch in January 2 round rock) Failrace LDB 10635063 10:00:08 AIR TEMP	2018 5 9	UTM CREW ICE CO	cm	SOI 548	R TYPE	6207836 TE none rock 6207761 TE
Back-up logg Both downlo Cable ok (st Primary Logg SITE ID LOGGER TY DOWNLOAD TEST RECO	PED DATE RDER T ROBERT GEPTH no ger gms bads included	Tic 27 TYPE 150 F SDN2-BU 2 dicated as steel cab #11, SN 1 gms DN1 Tic 30 TYPE 200	cm DUNCTION 2038614 ii OK but n le sectior 0669739 LOCA	LOGGER 2018 DOV WATER SISLODGED NAL wet In same caps to data due to attached to @ 09:48 TION LOGGER 2018 DOV WATER	WNLOAD R TEMP LOC no lucule 09:49 of aulty sh galvanize SERIAL # WNLOAD R TEMP LOC no	GMS T GGER CO RE IF DRY, HI COMMI COMMI GMS T GMS T GMS T GRE 2.4 GGER CO RE	10669739 9:48 AIR TEMP INDITIONS EASON EIGHT ABOVE V ENTS Failrace LDB 10635063 10:00:00 AIR TEMP INDITIONS EASON EIGHT ABOVE V	2018 5 9	UTM CREW ICE CO	cm	SOI 548	BC R TYPE uth 8881 BC	6207836 TE none rock 6207761 TE none
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SITEID						OVVINL		VI C	RIVIATION	
	pcnUP1	LOCATION			N Forebay		BANK			north
LOGGER TYPE	Tidb	_	OGGER SERIA		10635067		UTM		562710	6204068
DOWNLOAD DATE	≣ 30	Apr 20	DOWNLO	AD TIME	8:39		CREW		BC	TE
TEST RECORDER	ГҮРЕ	YSI	WATER TEMP	2.6	AIR TEMP	5.0	ICE CO	NDI	TIONS	none
			!	LOGGER CO	ONDITIONS					
WATER DEPTH	100	cm DISLO	ODGED no	R	EASON					
BURIED no	FL	JNCTIONAL	w et	IF DRY. H	EIGHT ABOVE	WATER		cm	TETHER TYPE	log boom
				COMM						log boom
Dow nload indicate	d as OK but	no data due	to failed launc	h in Jan 201	8 due to defecti	ve shuttle	<i>j</i>			
all stainless steel c			10 1404 144.10		0 440 10 40.001.					
Rpl #10, SN 10635										
SITEID	pcnDN2	LOCATION	NI .	DC.	N Tailrace		BANK			north
LOGGER TYPE	Tidb		OGGER SERIA		10156317		UTM		562803	6204854
DOWNLOAD DATE		_	DOWNLO		8:55		CREW		BC	
TEST RECORDER		YSI	WATER TEME		AIR TEMP	5.0	ICECO	בוחא		none
TEST RESORDER	=	101		LOGGER CO		0.0	IOL OC	INDI	10140	110110
WATER DEPTH	150	cm DISLO			EASON					
BURIED no		JNCTIONAL			EIGHT ABOVE	WATER		cm	TETHER TYPE	rock
				COMM	ENTS			-		
		,								
Dow nload indicate	d as OK but	no data due	to failed launc	h in Jan 201	8 due to defecti	ve shuttle)			
all stainless steel c	able ok									
RPL# 2, SN101563	17									
,										
SITE ID p	cnDN2_BU	LOCATION	J	PC	N Tailrace		BANK			north
SITE ID P	cnDN2_BU Tidb	LOCATION Dit L	N OGGER SERIA		N Tailrace 10635061		BANK UTM		562803	north 6204854
	Tidb	oit L		L #					562803 BC	6204854
LOGGER TYPE	Tidb	oit L	OGGER SERIA	L# ADTIME	10635061	5.0	UTM	NDI	ВС	6204854
LOGGER TYPE DOWNLOAD DATE	Tidb	oit L Apr 20	OGGER SERIA 018 DOWNLO WATER TEMP	L# ADTIME	10635061 8:58 AIR TEMP		UTM CREW	NDIT	ВС	6204854 TE
LOGGER TYPE DOWNLOAD DATE	Tidb	oit L Apr 20	OGGER SERIA 18 DOWNLO WATER TEMP	L# AD TIME 2.5 LOGGER CO	10635061 8:58 AIR TEMP		UTM CREW	NDIT	ВС	6204854 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER	Tidb = 30 TYPE 150	Apr 20 YSI	OGGER SERIA 18 DOWNLO WATER TEMP DOGED NO	L# AD TIME 2.5 LOGGER CO	10635061 8:58 AIR TEMP ONDITIONS	5.0	UTM CREW		ВС	6204854 TE
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidb 30 TYPE	Apr 20 YSI cm DISLO	OGGER SERIA 18 DOWNLO WATER TEMP DOGED NO	L# AD TIME 2.5 LOGGER CC	10635061 8:58 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	5.0	UTM CREW		BC FIONS	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidb 30 TYPE	Apr 20 YSI cm DISLO	OGGER SERIA 18 DOWNLO WATER TEMP DOGED NO	L# AD TIME 2.5 LOGGER CC	10635061 8:58 AIR TEMP ONDITIONS EASON HEIGHT ABOVE	5.0	UTM CREW		BC FIONS	6204854 TE none
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		CATION			Halfway River		BANK		THE STATE OF THE S	norti
OGGER TYPE	Tidbit		R SERIAL		20030829		UTM		595569	62305
OOWNLOAD DATE	25 A		OWNLOAD		11:47	,	CREW			C TE
EST RECORDER TYP			ER TEMP	2.4	AIR TEMP	10	ICECO	NDIT		none
					ONDITIONS		.0200			
WATER DEPTH	150 cm	DISLODGED			REASON					
BURIED no	FUNCT				HEIGHT ABOVE	WATER		cm .	TETHER TYPE	oprus
DOINED 110	1 0140 1	IOIAL WEL		COMM		WATER		CIII	TETTICK TITE	sprud
RPL# 33										
Dow nload OK										
Stainless cable OK, fra	ayed 1/4" cat	ole on shore re	epaired							
SITE ID half	FUP1 LO	CATION		u/e of l	Halfway River		BANK		south	
OGGER TYPE	Tidbit		R SERIAL		20097151		UTM		595165	62300
DOWNLOAD DATE	25 A ₁		OWNLOAD		12:05	5	CREW			C TE
EST RECORDER TYP			ER TEMP	2.5	AIR TEMP	10	ICECO	NDIT	IONS	none
					ONDITIONS					
WATER DEPTH		DISLODGED			REASON	14/4 ===				
BURIED no	FUNCT	IONAL wet			HEIGHT ABOVE	WATER		cm	TETHER TYPE	spruce
RPL# 34				COMM	IENI 3					
low nload OK										
able OK										
LOGGER TYPE	FDN2 LOC Tidbit 25 A ₁		R SERIAL OWNLOAI	#	Half w ay River 10669748 12:22	2	BANK UTM CREW		598198 BO	nortl 62321 C TE
LOGGER TYPE DOWNLOAD DATE	Tidbit 25 A _l	LOGGE or 2018 D	OWNLOAI ER TEMP	# D TIME 2.2	10669748 12:22 AIR TEMP	2 10	UTM	NDIT	ВС	62321
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYP	Tidbit 25 Ap	LOGGE or 2018 DO SI WATE	OWNLOAD ER TEMP LO	# D TIME 2.2 DGGER CO	10669748 12:22 AIR TEMP ONDITIONS		UTM CREW	NDIT	ВС	62321 C TE
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OGGER TYPE DOWNLOAD DATE FEST RECORDER TYPE WATER DEPTH BURIED NO water very low download OK stainless steel cable O	Tidbit 25 A E Y: 100 cm FUNCT	LOGGE DOT 2018 DO SI WATI	OWNLOAD ER TEMP LO no	# D TIME 2.2 DGGER CO R IF DRY, H	10669748 12:22 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	10	UTM CREW ICE CO		IONS BO	62321 C TE none
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OGGER TYPE DOWNLOAD DATE FEST RECORDER TYPE WATER DEPTH BURIED no vater very low download OK stainless steel cable O RpI #15, SN 10669748	Tidbit 25 A E Y: 100 cm FUNCT	DISLODGED IONAL W et CATION LOGGE	OWNLOAI ER TEMP LO O NO	# D TIME 2.2 DGGER CC R IF DRY, F COMM	10669748 12:22 AIR TEMP ONDITIONS REASON HEIGHT ABOVE IENTS Halfw ay River 10156314	WATER	UTM CREW ICE CO		TETHER TYPE	62321 C TE none balsam
OGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no vater very low download OK stainless steel cable O Rpl #15, SN 10669748 SITE ID half D OGGER TYPE DOWNLOAD DATE	Tidbit 25 A E Y: 100 cm FUNCT K N2_BU LOC Tidbit 25 A	DISLODGED IONAL W et CATION LOGGE 2018 DO LOGGED 2018 DO LOGGED 2018 DO LOGGED	OWNLOAI ER TEMP LO D NO R SERIAL OWNLOAI	# D TIME 2.2 DGGER COR R IF DRY, F COMM d/s of F	10669748 12:22 AIR TEMP ONDITIONS REASON HEIGHT ABOVE IENTS Halfway River 10156314 12:23	WATER	UTM CREW ICE CO	cm	TETHER TYPE 598179	62321 C TE none balsam nortl 62631 C TE
OGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no vater very low download OK stainless steel cable O Rpl #15, SN 10669748 SITE ID half D OGGER TYPE DOWNLOAD DATE	Tidbit 25 A E Y: 100 cm FUNCT K N2_BU LOC Tidbit 25 A	DISLODGED IONAL W et CATION LOGGE 2018 DO LOGGED 2018 DO LOGGED 2018 DO LOGGED	R SERIAL OWNLOAI ER TEMP	# D TIME 2.2 DGGER COR IF DRY, F COMM d/s of F	10669748 12:22 AIR TEMP CONDITIONS REASON HEIGHT ABOVE TENTS Halfway River 10156314 12:23 AIR TEMP	WATER	UTM CREW ICE CO	cm	TETHER TYPE 598179	62321 C TE none balsam
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BC HYI	ORO PE	EACE	RIVER	TEMP	ERATU	RE MON	IITORING -	DOWNL	OAD I	NFC	RMATI	ON F	ORM
SITEID	mobUP2	2 L	OCATIO	N		u/s of	Moberly River		BANK				north
LOGGER TYPE		Tidbit		OGGER	SERIAL		10669754		UTM		6275	01	6232563
DOWNLOAD DAT	F 1	27		018 DO	_		9:55		CREW		0210	BC	
TEST RECORDER			YSI		RTEMP	2.7	AIR TEMP	10.0	ICECC	N IDI	TIONS		none
TEST RECORDER	TIFE		1 31	WAIL			ONDITIONS	10.0	ICECC	INDI	IONS		TIONE
W/4 TED DEDTIL	101		PIOL										
WATER DEPTH	100		m DISL		no		REASON						
BURIED no		FUN	CTIONAL	. wet		-	HEIGHT ABOVE	WATER		cm	TETHER	TYPE	spruce
						COMM	IENTS						
dow nload Ok													
stainless steel cal													
Rpl #16, SN 10669)754 (rep	placed	RPL# 12)										
SITEID	mobUP ²		LOCATIO	N		u/s of	Moberly River		BANK		sout		
LOGGER TYPE		Tidbit		OGGER			10887852		UTM		6271		6232349
DOWNLOAD DAT		27	-	018 DO			10:0		CREW			BC	
TEST RECORDER	TYPE		YSI	WATE	RTEMP	3.2	AIR TEMP	10.0	ICECC	NDI	TIONS		none
WATER REPTU			DIO	ODOFD	LC		ONDITIONS						
WATER DEPTH		-	om DISLO		alm (,	EASON HEIGHT ABOVE	- WATED	ice		TETLIED	T\/DC	
BURIED no		FUN	CTIONAL		dry	COMM		WATER	10	cm	TETHER	ITPE	alder
						COIVIIV	IENIS						
RPL#21-10887852)												
pulled to shore by		e unkni	own and	at w ator'	's adaa								
dow nload ok	persons	3 UIINII	ow ii and a	at water	s euge								
dow fiload ok													
SITE ID r	nobDN1	BU I	OCATIO	N		d/s of	Moherly River		BANK		sout	h	
SITE ID r			LOCATIO		SERIAL		Moberly River		BANK		sout 6304		6229275
		_BU L Tidbit 27	L	N _OGGER 018 DO		#	Moberly River 10676147 10:2		BANK UTM CREW		sout 6304		6229275 TE
LOGGER TYPE	E 2	Tidbit	L	OGGER 018 DO		#	10676147		UTM)NDI	6304	02	
LOGGER TYPE DOWNLOAD DAT	E 2	Tidbit	Apr 20	OGGER 018 DO	WNLOAI R TEMP	# D TIME 2.8	10676147 10:2	18	UTM CREW)NDI	6304	02	TE
LOGGER TYPE DOWNLOAD DAT	E 2	Tidbit 27	Apr 20	OGGER 018 DO WATEF	WNLOAI R TEMP	# D TIME 2.8	10676147 10:2 AIR TEMP	18	UTM CREW)NDI	6304	02	TE
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LOGGER TYPE DOWNLOAD DAT TEST RECORDER WATER DEPTH BURIED no download indicate partially sw ung to RPL#18	TYPE 100 ad as OK shore be	Tidbit 27 0 c FUNC C but no out still	Apr 20 YSI CTIONAL o data due w et	OGGER 018 DO' WATER ODGED . w et	WNLOAR TEMP LC y relaunce	# D TIME 2.8 DGGER CC yes R IF DRY, H COMM	10676147 10:2 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS ective shuttle in	EWATER 1 January	UTM CREW ICE CO ice		6304 FIONS TETHER	BC TYPE	TE none alder
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LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both downloa	PPE DATE DATE DEPTH no oads Of stainless	120 sDN2-B	Tidbit 12 Ju 12 Y: 0 cm FUNCT U 203861	L 20 SI DISLO	OGGER 018 DO' WATEF ODGED wet	NNLOAR TEMP	# D TIME 11.9 DGGER CC RI IF DRY, H COMM 1, replaced	10669739 11:0' AIR TEMP DNDITIONS EASON IEIGHT ABOVE ENTS d w ith RPL#37 \$	24 EWATER	UTM CREW ICE CO	NDIT	TIONS	BC TE nor	6207836 ne
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LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both downl cable ok (s Primary Log SITE ID LOGGER T	YPE D DATE DRDER 1 DEPTH no oads Of stainless gger-Rpl	120 sDN2-B (steel c #11, SI	Tidbit 12 Ju 12 Ju 13 Yu 14 Ju 15 Ju 16 Ju 16 Ju 17 Ju 17 Ju 18 Ju	DISLO IONAL 14 in sa tion atta 739	OGGER ODGED WATER ODGED wet ached to	NNLOAR TEMP LO no sule 11:0 galvaniz	# D TIME 11.9 DGGER CO RI IF DRY, H COMM 1, replaced red cable a	10669739 11:0' AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS d with RPL#37 S round rock) Tailrace LDB 10635063	24 E WATER S/N 20332	UTM CREW ICE CO	NDIT	TETHER TYPE south 548881	BC TE nor	6207836 ne
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LOGGER T DOWNLOA TEST RECO WATER D BURIED Back-up log both downl cable ok (s Primary Log SITE ID LOGGER T	YPE DDATE DROPTH no oads Obtainless gger-Rpl YPE DDATE	120 sDN2-B (steel c #11, SI	Tidbit 12 Ju 12 Ju 13 Yu 14 Ju 15 Ju 16 Ju 16 Ju 17 Ju 17 Ju 18 Ju	DISLO IONAL 14 in sation atta 739	OGGER ON OGGER ON OGGER O	NNLOAR TEMP LO no sule 11:0 galvaniz SERIAL WNLOAR TEMP	# D TIME 11.9 DGGER CO RI IF DRY, H COMM 1, replaced red cable a GMS T # D TIME 11.9	10669739 11:0' AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS If with RPL#37 S round rock) Tailrace LDB 10635063 11:18 AIR TEMP	24 E WATER S/N 20332	UTM CREW ICE CO	cm	TETHER TYPE south 548881	BC TE nor	s207836 ne rock
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Back-up log both downloa cable ok (s Primary Log SITE ID LOGGER T DOWNLOA TEST RECC	YPE DRDER 1 DEPTH no oads Of stainless gger-RpI YPE D DATE DRDER 1	120 sDN2-B (steel c #11, SI	Tidbit 12 Ju 12 Ys 12 Ju 13 Punct 14 Loc 16 Ju 16 Ju 17 Ju 18 Ju 19 Ju 1	DISLO CATION L L UI 20 CATION L UI 2	OGGER ODGED WATER ODGED Wet MOGGER ON OGGER ODGED	NNLOAR TEMP LO no sule 11:0 galvaniz SERIAL WNLOAR TEMP	# D TIME 11.9 DGGER CC RI IF DRY, H COMM 1, replaced red cable a GMS T # D TIME 11.9 DGGER CC RI	10669739 11:0' AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS If with RPL#37 S round rock) Tailrace LDB 10635063 11:18 AIR TEMP INDITIONS EASON	24 E WATER S/N 20332	UTM CREW ICE CO	cm	South 548881	BC TE nor	s207836 ne rock s207761
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Back-up log both downloa cable ok (s Primary Log SITE ID LOGGER T DOWNLOA TEST RECC	YPE DRDER 1 DEPTH no oads Of stainless gger-RpI YPE D DATE DRDER 1	120 sDN2-B (steel c #11, Sl	Tidbit 12 Ju 12 Ys 12 Ju 13 Punct 14 Loc 16 Ju 16 Ju 17 Ju 18 Ju 19 Ju 1	DISLO CATION L L UI 20 CATION L UI 2	OGGER ODGED WATER ODGED Wet MOGGER ON OGGER ODGED	NNLOARTEMP LO no sule 11:0 galvaniz SERIAL WNLOARTEMP	# D TIME 11.9 DGGER CC RI IF DRY, H COMM 1, replaced red cable a GMS T # D TIME 11.9 DGGER CC RI	AIR TEMP AIR TEMP INDITIONS FASON EIGHT ABOVE ENTS I with RPL#37 S I round rock) Failrace LDB 10635063 11:18 AIR TEMP INDITIONS FASON EIGHT ABOVE EIGHT ABOVE EIGHT ABOVE I round rock)	24 E WATER S/N 20332	UTM CREW ICE CO	cm	South 548881	BC TE nor	s207836 ne rock s207761
Back-up log both downloa cable ok (s Primary Log SITE ID LOGGER T DOWNLOA TEST RECC	YPE DRDER 1 DEPTH no oads Of stainless gger-RpI YPE D DATE DRDER 1	120 sDN2-B (steel c #11, Sl	Tidbit 12 Ju 12 Ys 12 Ju 13 Punct 14 Loc 16 Ju 16 Ju 17 Ju 18 Ju 19 Ju 1	DISLO CATION L L UI 20 CATION L UI 2	OGGER ODGED WATER ODGED Wet MOGGER ON OGGER ODGED	NNLOARTEMP LO no sule 11:0 galvaniz SERIAL WNLOARTEMP	# D TIME 11.9 DGGER CC RI IF DRY, H COMM 1, replaced red cable a GMS T # D TIME 11.9 DGGER CC RI IF DRY, H	AIR TEMP AIR TEMP INDITIONS FASON EIGHT ABOVE ENTS I with RPL#37 S I round rock) Failrace LDB 10635063 11:18 AIR TEMP INDITIONS FASON EIGHT ABOVE EIGHT ABOVE EIGHT ABOVE I round rock)	24 E WATER S/N 20332	UTM CREW ICE CO	cm	South 548881	BC TE nor	s207836 ne rock s207761
LOGGER T DOWNLOA TEST RECC WATER D Back-up log both downloa cable ok (s Primary Log SITE ID LOGGER T DOWNLOA TEST RECC WATER D BURIED	YPE DRDER 1 DEPTH no oads Of stainless gger-RpI YPE D DATE DRDER 1	sDN2-B (steel c #11, SI	Tidbit 12 Ju 12 Y: 12 Ju 13 FUNCT U 203861 able sect N 106697 I Loo Tidbit 12 Ju 14 me 15 cm	DISLO CATION L L DISLO CATION L DISLO CIONAL	OGGER ODGED WATEF ODGED Wet OGGER OGGER OGGER OGGER WATEF ODGED WATEF	NNLOARTEMP LO no sule 11:0 galvaniz SERIAL WNLOARTEMP LO no	# D TIME 11.9 DGGER CO RI IF DRY, H COMM 1, replaced red cable a GMS 1 # D TIME 11.9 DGGER CO RI IF DRY, H COMM	AIR TEMP AIR TEMP INDITIONS FASON EIGHT ABOVE ENTS I with RPL#37 S I round rock) Failrace LDB 10635063 11:18 AIR TEMP INDITIONS FASON EIGHT ABOVE EIGHT ABOVE EIGHT ABOVE I round rock)	24 E WATER S/N 20332	UTM CREW ICE CO	cm	South 548881	BC TE nor	s207836 ne rock s207761
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Back-up log both downloa TEST RECO WATER D Back-up log both downloa SITE ID LOGGER T DOWNLOA TEST RECO WATER D Back-up log both downloa TEST RECO WATER D BurleD	YPE DRDER 1 DEPTH no oads Of stainless gger-Rpl YPE D DATE DRDER 1	120 sDN2-B (steel c #11, Sl	Tidbit 12 Ju 12 Ju 13 Ju 14 Ju 15 Ju 16 Ju 16 Ju 17 Ju 18 Ju	DISLO CATION L L L L L L L L L L L L L L L L L L L	OGGER ODGED WATER ODGED Wet OGGER ON OGGER ON OGGER WATER ODGED WATER WATER ODGED WATER ODGED WATER ODGED WATER ODGED WATER ODGED WATER WATER WATER WATER WATER WATER WATER WATER WAT	SERIAL WNLOA R TEMP LO galvaniz	# D TIME 11.9 DGGER CO RI IF DRY, H COMM 1, replaced red cable a GMS 1 # D TIME 11.9 DGGER CO RI IF DRY, H COMM	10669739 11:0' AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS If with RPL#37 S round rock) Failrace LDB 10635063 11:18 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS	24 E WATER S/N 20332	UTM CREW ICE CO	cm	South 548881	BC TE nor	s207836 ne rock s207761
Back-up log both downloa TEST RECO WATER D Back-up log both downloa SITE ID LOGGER T DOWNLOA TEST RECO WATER D Back-up log both downloa TEST RECO WATER D BurleD	YPE DRDER 1 DEPTH no oads Of stainless gger-RpI DEPTH no DEPTH no DEPTH no DEPTH no DEPTH no	sDN2-B (steel c #11, Sl gmsDN: 100 sDN1-B (steel c	Tidbit 12 Ju 12 Ju 13 Yu 14 Tidbit 15 Tidbit 16 Tidbit 17 Tidbit 18 Tidbit 19 Tidbit 10 Cm	DISLO CATION L L L L L L L L L L L L L L L L L L L	OGGER ODGED WATER ODGED Wet OGGER ON OGGER ON OGGER WATER ODGED WATER WATER ODGED WATER ODGED WATER ODGED WATER ODGED WATER ODGED WATER WATER WATER WATER WATER WATER WATER WATER WAT	SERIAL WNLOA R TEMP LO galvaniz	# D TIME 11.9 DGGER CO RI IF DRY, H COMM 1, replaced red cable a GMS 1 # D TIME 11.9 DGGER CO RI IF DRY, H COMM	AIR TEMP AIR TEMP INDITIONS FASON EIGHT ABOVE ENTS I with RPL#37 S I round rock) Failrace LDB 10635063 11:18 AIR TEMP INDITIONS FASON EIGHT ABOVE EIGHT ABOVE EIGHT ABOVE I round rock)	24 E WATER S/N 20332	UTM CREW ICE CO	cm	South 548881	BC TE nor	s207836 ne rock s207761

BO	C HYDI	RO PE	ACE RIV	'ER	ГЕМРЕ	RATU	RE MON	ITORIN	IG - DOV	NNL	OAD I	NFC	RMA	TION F	ORM
SITEID		pcnUP1	LOCA	TION			PCN	N Forebay	V		BANK				north
LOGGER T	YPE	7	Γidbit	17	OGGER	SFRIAL			35067		UTM		56:	2684	6204075
DOWNLOA	D DATE	1	2 Jul		18 DO			1000	9:58		CREW	,	00.		TE
TEST RECO			YSI		WATER		17.0	AIR TE		: 0	ICEC		LIUNG		none
TEST NESC		***	101		WAIL		OGGER CO				ICEC	JINDI	10143		TIOTIC
WATER R	CDTU	400			DOED				10						
WATER D	EPIH	100			DDGED	no		EASON							
BURIED	no		FUNCTIO	NAL	w et				BOVEWA	TER		cm	TETHE	RTYPE	log boom
							COMM	ENTS							
dow nload C															
all stainless															
Rpl #10, SN	106350	67													
SITEID		pcnDN2						N Tailrace			BANK				north
LOGGER T			Γidbit		OGGER			1015	6317		UTM		562	2803	6204854
DOWNLOA				20			DTIME		9:39		CREW			ВС	TE
TEST RECO	ORDER T	YPE	YSI		WATE		10.7	AIR TE		5.0	ICE C	ONDI	TIONS		none
WATER	CDTU	400			DOED		OGGER CO		NS						
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BURIED	no		FUNCTIO	NAL	w et		COMM		BOVE WA	IER		cm	IEINE	RTYPE	rock
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RPL# 2	3100100	ADIC OK													
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SITEID	po	nDN2 E	3U LOCA	TION	ı		PC	N Tailrace	e		BANK				north
SITE ID LOGGER T			BU LOCA			SERIAI		N Tailrace			BANK		56	2803	north 6204854
SITE ID LOGGER T	YPE	1	Γidbit	L	OGGER				e 35061 9:42		UTM		562	2803 BC	north 6204854
LOGGER T	YPE D DATE	1	Γidbit	L	OGGER	WNLOA	. #		35061 9:42	5.0		,			6204854
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LOGGER T	YPE D DATE ORDER T	1	Fidbit 2 Jul YSI	20	OGGER 18 DO	WNLOA R TEMP	.# 10.7 OGGER CO	1063	35061 9:42 MP 16	5.0	UTM CREW	,			6204854 TE
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LOGGER TO DOWNLOA TEST RECO	YPE D DATE ORDER T EPTH	1. Y PE	Fidbit 2 Jul YSI cm	20 DISLO	OGGER 018 DO	WNLOA RTEMP L	.# AD TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW	ONDI	FIONS	BC	6204854 TE none
LOGGER TO DOWNLOA TEST RECO	YPE D DATE DRDER T DEPTH no	1. Y PE	Fidbit 2 Jul YSI cm	20 DISLO	OGGER 018 DO	WNLOA RTEMP L	.# AD TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW	ONDI	FIONS	BC	6204854 TE none
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LOGGER TO DOWNLOA TEST RECO	PYPE D DATE DROER 1 PPTH NO DK steel cap same	100 able ok	Tidbit 2 Jul YSI cm C	20 DISLO	OGGER 018 DO	WNLOA RTEMP LO	.# AD TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW	ONDI	FIONS	BC	6204854 TE none
LOGGER TO DOWNLOA TEST RECOMMENTED WATER DOWNLED download Coall stainless Anchored to	PYPE D DATE DROER 1 PPTH NO DK steel cap same	100 able ok	Tidbit 2 Jul YSI cm C	20 DISLO	OGGER 018 DO	WNLOA RTEMP LO	.# AD TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW	ONDI	FIONS	BC	6204854 TE none
LOGGER TO DOWNLOA TEST RECOMMENTED WATER DOWNLED download Coall stainless Anchored to	PYPE D DATE DROER 1 PPTH NO DK steel cap same	100 able ok	Tidbit 2 Jul YSI cm C	20 DISLO	OGGER 018 DO	WNLOA RTEMP LO	.# AD TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW	ONDI	FIONS	BC	6204854 TE none
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LOGGER TO DOWNLOA TEST RECOMMENTED WATER DOWNLED download Coall stainless Anchored to	PYPE D DATE DROER 1 PPTH NO DK steel cap same	100 able ok	Tidbit 2 Jul YSI cm C	DISLO DISLO	OGGER 118 DO WATER DDGED wet	WNLOA RTEMP LO	.# AD TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW	cm	FIONS	BC	6204854 TE none
WATER D BURIED download C all stainless Anchored to Rpl #9, SN1	PPED DATE DRDER TO DR	100 able ok	Tidbit 2 Jul YSI cm I FUNCTIO	L 20 20 DISLO NAL	OGGER 118 DO WATER DDGED wet	WNLOAR TEMP	.# ID TIME 10.7 OGGER CO RI IF DRY, H	AIR TE DIDITION EASON EIGHT A	35061 9:42 EMP 16		UTM CREW ICE CO	cm	FIONS	BC	6204854 TE none
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LOGGER TO DOWNLOATEST RECOMMENTS TO BURIED download Coall stainless Anchored to Rpl #9, SN1 SITE ID LOGGER TO	PPED DATE DROER TO DROER	100 able ok	Tidbit 2 Jul YSI cm I FUNCTIO	L 20 20 DISLO NAL	OGGER 118 DOV WATER DDGED Wet	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	.# D TIME 10.7 OGGER CO RI IF DRY, H COMM	AIR TE	9:42 9:42 MP 16 NS BOVE WA		UTM CREW ICE CO	cm	TETHE	BC	6204854 TE none
LOGGER TO DOWNLOATEST RECOMENTED WATER DOWNLOAD download Coall stainless Anchored to Rpl #9, SN1 SITE ID LOGGER TO DOWNLOAD	PPED DATE DROER TO DROER	100 able ok	Tidbit 2 Jul YSI cm I FUNCTIO	L 20 20 DISLO NAL	OGGER DOGGER OGGER DOGGER DO	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	.# D TIME 10.7 OGGER CO RI IF DRY, H COMM	AIR TE	9:42 9:42 MP 16 NS BOVE WA		UTM CREW ICE CO	cm	TETHE	BC	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER DOGGER OGGER DOGGER DO	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	.# .D TIME .10.7 OGGER CO .RI IF DRY, H .COMIM .# .D TIME OGGER CO	AIR TE AIR TE AIR TE AIR TE DIDITION	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOA TEST RECO	PPED DATE DROER TO DR	100 able ok	FUNCTIO	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	BC	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	.# .D TIME .10.7 OGGER CO .RI IF DRY, H .COMIM .# .D TIME OGGER CO	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none
LOGGER TO DOWNLOATEST RECO	PPED DATE DROER TO DR	100 able ok	Cm C Cm	L 200 DISLC	OGGER 118 DOV WATER DOGED Wet OGGER DOV WATER	WNLOAR TEMP LO NO SERIAL WNLOAR TEMP	JE DORY, H	AIR TE DIDITION EASON EIGHT A ENTS AIR TE DIDITION EASON EIGHT A	9:42 9:42 MP 16 NS BOVE WA	TER	UTM CREW ICE CO	cm	TETHE	R TYPE	6204854 TE none

BC HYDRO P	FACE RIVE	R TEMPERAT	URF MON	IITORING - F		$()\Delta I)II$	$A \vdash C \bowtie M \lor$	LION E	
SITE ID half UF				Halfway River	JUINE	BANK	TO CHINA	. 1314 1	north
LOGGER TYPE	Tidbit	LOGGER SERIA		20030829		UTM	505	5569	6230541
DOWNLOAD DATE	14 Jul	2018 DOWNLO		9:36	1	CREW	390	BC	
TEST RECORDER TYPE	YSI	WATER TEM		AIR TEMP	20		NDITIONS	50	none
- LOT NEOONDEN TIPE	1 01		LOGGER CO		20	ICECO	HUI I IUNS		HOHE
WATER DEPTH	0 cm Di								
WATER DEPTH 9	-	SLODGED no		REASON				D D (==	
BURIED no	FUNCTION	AL wet		HEIGHT ABOVE	WATER		cm TETHE	RIYPE	spruce
			COMM	IENIS					
dow nload OK									
cable OK									
RPL#33									
SITE ID half UF	1 LOCAT	ION	u/s of I	Halfway River		BANK	so	uth	
LOGGER TYPE	Tidbit	LOGGER SERIA	L#	·		UTM	595	5165	6230094
DOWNLOAD DATE	14 Jul	2018 DOWNLO				CREW		BC	TE
TEST RECORDER TYPE	YSI	WATER TEM		AIR TEMP	15	ICECO	NDITIONS		none
MATER DEDT			LOGGER CO						
WATER DEPTH		SLODGED	-	REASON tamp			700.0		
BURIED	FUNCTION	AL	IF DRY, F	HEIGHT ABOVE	WATER		cm TETHE	KIYPE	spruce tree
<u> </u>			CONTIN	ILINIO					
cable, anchor and logger									
eplaced with RPL #39 (S	NI 00000400'	at 09:20							
	อเง 20322123) ส								
	on 20322123) 8	at 00.20							
	DIN 20322123) 8	at 00.20							
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	DIN ZU3ZZ1Z3) 8	A. 00.E0							
SITE ID half Di			d/s of I	Halfw ay River		BANK			north
				Halfw ay River 10669748		BANK UTM	598	3198	north 6232169
SITE ID half DI LOGGER TYPE DOWNLOAD DATE	N2 LOCAT	ION	L#	•			598	3198 BC	6232169
LOGGER TYPE	N2 LOCAT Tidbit	ION LOGGER SERIA	L# ADTIME	10669748	20	UTM CREW	598		6232169
LOGGER TYPE DOWNLOAD DATE	N2 LOCAT Tidbit 15 Jul	ION LOGGER SERIA 2018 DOWNLO WATER TEM	L# ADTIME	10669748 9:55 AIR TEMP		UTM CREW			6232169 TE
LOGGER TYPE DOWNLOAD DATE	N2 LOCAT Tidbit 15 Jul YSI	ION LOGGER SERIA 2018 DOWNLO WATER TEM	AD TIME P 15.8 LOGGER CO	10669748 9:55 AIR TEMP		UTM CREW			6232169 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	N2 LOCAT Tidbit 15 Jul YSI	ION LOGGER SERIA 2018 DOWNLO WATER TEM	AD TIME P 15.8 LOGGER CO	10669748 9:55 AIR TEMP ONDITIONS	20	UTM CREW		BC	6232169 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	V2 LOCAT Tidbit 15 Jul YSI	ION LOGGER SERIA 2018 DOWNLO WATER TEM	AD TIME P 15.8 LOGGER CO	10669748 9:55 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	20	UTM CREW	NDITIONS	BC	6232169 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	V2 LOCAT Tidbit 15 Jul YSI	ION LOGGER SERIA 2018 DOWNLO WATER TEM	AL # P 15.8 LOGGER CO R IF DRY, H	10669748 9:55 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	20	UTM CREW	NDITIONS	BC	6232169 TE none
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok	V2 LOCAT Tidbit 15 Jul YSI	ION LOGGER SERIA 2018 DOWNLO WATER TEM	AL # P 15.8 LOGGER CO R IF DRY, H	10669748 9:55 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	20	UTM CREW	NDITIONS	BC	6232169 TE none
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no dow nload ok stainless steel cable OK Rpl #15, SN 10669748 w ater extremely low and	V2 LOCAT Tidbit 15 Jul YSI cm DIS FUNCTION very little flow	LOGGER SERIA 2018 DOWNLO WATER TEM SLODGED no AL wet at site	AL# AD TIME P 15.8 LOGGER CO R IF DRY, F	10669748 9:55 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	20	UTM CREW	NDITIONS	BC	6232169 TE none
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable OK Rpl #15, SN 10669748 w ater extremely low and moved downstream to ne	V2 LOCAT Tidbit 15 Jul YSI cm DIS FUNCTION very little flow	LOGGER SERIA 2018 DOWNLO WATER TEM SLODGED no AL w et at site 10.598313.623237	AD TIME P 15.8 LOGGER CC R IF DRY, F	10669748 9:55 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	20	UTM CREW	NDITIONS	BC	6232169 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable OK Rpl #15, SN 10669748 w ater extremely low and moved downstream to ne	N2 LOCAT Tidbit 15 Jul YSI cm DIS FUNCTION very little flow w location at 1	LOGGER SERIA 2018 DOWNLO WATER TEM SLODGED no AL w et at site 10.598313.623237	AD TIME P 15.8 LOGGER CC R IF DRY, F COMM	10669748 9:55 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	20	UTM CREW ICE CO	CM TETHE	BC	6232169 TE none balsam pop
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable OK Rpl #15, SN 10669748 w ater extremely low and moved downstream to ne	Tidbit 15 Jul YSI cm DIS FUNCTION very little flow w location at '	ION LOGGER SERIA 2018 DOWNLO WATER TEM SLODGED no AL wet at site 10.598313.623237	AD TIME P 15.8 LOGGER CC R IF DRY, F COMM	10669748 9:55 AIR TEMP CONDITIONS REASON HEIGHT ABOVE TENTS Halfw ay River	20 WATER	UTM CREW ICE CO	CM TETHE	BC R TYPE	6232169 TE none balsam pop
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable OK Rpl #15, SN 10669748 w ater extremely low and moved downstream to ne SITE ID half DN2 LOGGER TYPE DOWNLOAD DATE	N2 LOCAT Tidbit 15 Jul YSI Cm DIS FUNCTION Very little flow ew location at '	LOGGER SERIA 2018 DOWNLO WATER TEM SLODGED no AL wet at site 10.598313.623237 ION LOGGER SERIA 2018 DOWNLO WATER TEM	AD TIME P 15.8 LOGGER CC R IF DRY, F COMM	10669748 9:55 AIR TEMP CONDITIONS REASON HEIGHT ABOVE TENTS Halfway River 10156314 10:00 AIR TEMP	20 EWATER	UTM CREW ICE CO	cm TETHE	BC R TYPE	6232169 TE none balsam pop north 6263144 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable OK Rpl #15, SN 10669748 w ater extremely low and moved downstream to ne SITE ID half DN2 LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	N2 LOCAT Tidbit 15 Jul YSI Cm DIS FUNCTION Very little flow w location at ' _BU LOCAT Tidbit 15 July YSI	LOGGER SERIA 2018 DOWNLO WATER TEM SLODGED no AL wet at site 10.598313.623237 ION LOGGER SERIA 2018 DOWNLO WATER TEM	AD TIME P 15.8 LOGGER CC R IF DRY, F COMM 78 d/s of F AD TIME P 15.8 LOGGER CC	10669748 9:55 AIR TEMP CONDITIONS REASON HEIGHT ABOVE TENTS Halfway River 10156314 10:00 AIR TEMP	20 EWATER	UTM CREW ICE CO	cm TETHE	BC R TYPE	6232169 TE none balsam pop north 6263144 TE
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ВС	: HYD	RO PI	EAC	E RIVER	TEMP	ERATU	RE MON	ITORING -	DOWNL	OAD II	NFC	RMAT	ION F	ORM
SITEID		mobUP.	2	LOCATIO	N		u/s of l	Moberly River		BANK				north
LOGGER TY	PE		Tidbit		LOGGER	SFRIAI		10669754		UTM		627	501	6232563
DOWNLOAD	DATE	-	11		2018 DO	_		9:4		CREW		OZI		TE
TEST RECO				YSI		RTEMP	14.4	AIR TEMP	22.0	ICECC	MIDIT	LIONS		none
TEST RESS	INDEX.	11.5		101	WAIL			ONDITIONS	22.0	ICECC	INDI	10143		TIOTIC
WATER DE	DTU	200		DICI	ODOED									
WATER DE		30		cm DISL		no		EASON						
BURIED	no		FUN	NCTIONAL	L wet		•	EIGHT ABOVI	EWATER		cm	TETHER	RTYPE	spruce
							COMM	IENTS						
DDI #40 ON	40000													
RPL#16, SN		754												
dow nload ol														
w ater very I	ow bu	. logger	wei											
SITEID		mobUP	И	LOCATIO	NI.		u/o of l	Moharly Piyor		BANK		201	ıth	
LOGGER TY		IIIOOOI	Tidbit		LOGGER	SEDIAL		Moberly River 10887852		UTM		50L 627		6232349
DOWNLOAD		-	11	-	2018 DO			9:50		CREW		021		TE
TEST RECO				YSI		RTEMP	14.9	AIR TEMP	22.0	ICECC	NDIT	TIONS		none
								ONDITIONS		.0_0		10.10		
WATER DE	₽TH	60)	cm DISL	ODGED	no	R	EASON						
BURIED	no		FUN	NCTIONAL	L wet		IF DRY, H	IEIGHT ABOVI	EWATER		cm	TETHER	TYPE	alder
							COMM	ENTS						
RPL# 21, SN		352												
stainless cal														
dow nload of					14									
anchor tree	nas die	ea, remo	ovea	cable and	relocated	upstrea	am to a nev	v tree						
SITEID	m	ahDN1	BU	LOCATIO	INI		d/s of	Moherly River		RANK		901	ıth	
SITE ID LOGGER TY		obDN1_		LOCATIO		SFRIAL		Moberly River		BANK		sou 630/		6229275
SITE ID LOGGER TY DOWNLOAD	PE		_BU Tidbit	t	DN LOGGER 2018 DO		.#	Moberly River 10676147 10:3		UTM		sou 6308	375	6229275 TE
LOGGER TY	PE DATE		Tidbi	t	LOGGER 2018 DO		.#	10676147			ONDIT	6308	375	
LOGGER TY	PE DATE		Tidbi	t Jul 2	LOGGER 2018 DO	WNLOA R TEMP	. # .D TIME 15.5	10676147 10:3	32	UTM CREW	ONDIT	6308	375	TE
LOGGER TY	PE DATE RDER		Tidbit	t Jul 2	LOGGER 2018 DO WATER	WNLOA R TEMP	# 15.5 OGGER CO	10676147 10:3 AIR TEM P DNDITIONS EASON tam	22.0 pered	UTM CREW	ONDIT	6308	375	TE
LOGGER TY DOWNLOAD TEST RECO	PE DATE RDER	ГҮРЕ	Tidbit	Jul 2 YSI	LOGGER 2018 DO' WATER	WNLOA R TEMP	# 15.5 OGGER CO	10676147 10:3 AIR TEMP ONDITIONS	22.0 pered	UTM CREW		6308	875 BC	TE
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED	PED DATE RDER PTH	ГҮРЕ	Tidbit	t Jul 2 YSI cm DISL	LOGGER 2018 DO' WATER	WNLOA R TEMP L	# 15.5 OGGER CO	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED	PED DATE RDER PTH NO	ГҮРЕ	Tidbit	t Jul 2 YSI cm DISL	LOGGER 2018 DO' WATER	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O	PED DATE RDER EPTH no	30	Tidbii	ysi cm DISL	LOGGER 2018 DO' WATEF LODGED	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle	PED DATE RDER PTH NO K Ked to sl	TYPE 300	Tidbii 11 Fun	ysi math display="block" block" block math display="block" block" block math displa	LOGGER 2018 DO' WATEF LODGED	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O	PED DATE RDER PTH NO K Ked to sl	TYPE 300	Tidbii 11 Fun	ysi math display="block" block" block math display="block" block" block math displa	LOGGER 2018 DO' WATEF LODGED	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle	PED DATE RDER PTH NO K Ked to sl	TYPE 300	Tidbii 11 Fun	ysi math display="block" block" block math display="block" block" block math displa	LOGGER 2018 DO' WATEF LODGED	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle	PED DATE RDER PTH NO K Ked to sl	TYPE 300	Tidbii 11 Fun	ysi math display="block" block" block math display="block" block" block math displa	LOGGER 2018 DO' WATEF LODGED	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle	PED DATE RDER PTH NO K Ked to sl	TYPE 300	Tidbii 11 Fun	ysi math display="block" block" block math display="block" block" block math displa	LOGGER 2018 DO' WATEF LODGED	WNLOA R TEMP L	.# D TIME 15.5 OGGER CO yes R IF DRY, H	10676147 10:3 AIR TEMP ONDITIONS EASON tam	22.0 pered	UTM CREW		6308 FIONS	875 BC	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to be	PED DATE RDER T EPTH no K ed to sl be w et	30 nore by intermit	Tidbit 11 FUN persettently	ysi math distribution of the second	LOGGER 2018 DO' WATER LODGED	WNLOA R TEMP L	# 15.5 OGGER CC yes R IF DRY, F	10676147 10:3 AIR TEMP DNDITIONS EASON tam HEIGHT ABOVI	22.0 pered	UTM CREW ICE CO		6308 FIONS TETHER	BTYPE	TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b	PTH no	TYPE 300	Tidbit 11 11 11 11 11 11 11 11 11	ysi cm DISL NCTIONAL	LOGGER 2018 DO' WATER LODGED	WNLOAR TEMP Load	# 15.5 OGGER CC yes R IF DRY, F	10676147 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI	22.0 pered EWATER	UTM CREW ICE CO		6308 TIONS TETHER	BTYPE	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b	PED DATE RDER TO THE PTH NO THE P	30 anore by intermit	Tidbit Tidbit Tidbit Tidbit	ysi zysi zysi zysi zysi zysi zysi zysi z	LOGGER 2018 DO' WATEF LODGED DW n	dry SERIAL	# 15.5 OGGER CC yes R IF DRY, F COMM	AIR TEMP ONDITIONS EASON tam HEIGHT ABOVI	22.0 pered EWATER	UTM CREW ICE CO		6308 FIONS TETHER	BTS BC RTYPE	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD	PEDDATE POPE POP	300 more by intermit	Tidbit 11 11 11 11 11 11 11 11 11	ysi cm DISL NCTIONAL cons unknow	WATEF ODGED OWN LOGGER 2018 DOV	dry SERIAL WNLOA	# 15.5 OGGER CC yes R IF DRY, F COMM	Moberly River	22.0 pered EWATER	UTM CREW ICE CO	cm	6308 TETHER SOL 6307	BTS BC RTYPE	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b	PEDDATE POPE POP	300 more by intermit	Tidbit Tidbit Tidbit Tidbit	ysi zysi zysi zysi zysi zysi zysi zysi z	WATEF ODGED OWN LOGGER 2018 DOV	MILOAR TEMP LO dry SERIAL WINLOAR TEMP	# DTIME 15.5 OGGER CC yes R IF DRY, F COMM d/s of # DTIME 15.5	Moberly River 10676146 10:3 AIR TEMP DNDITIONS EASON tam HEIGHT ABOVI IENTS	22.0 pered EWATER	UTM CREW ICE CO	cm	6308 TETHER SOL 6307	BTS BC RTYPE	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO	PEDDATE RDER PTH no K ed to shoe w et	30 anore by intermit	Tidbin Ti	THE TOTAL STATE OF THE TOTAL STA	DN LOGGER 2018 DO WATEF	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of 1 # 15.5 OGGER CC OGGER CC	Moberly River 10676146 10:3 AIR TEMP DIDITIONS EASON tam HEIGHT ABOVI IENTS Moberly River 10676146 10:2 AIR TEMP DIDITIONS	22.0 pered EWATER	UTM CREW ICE CO	cm	6308 TETHER SOL 6307	BTS BC RTYPE	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO	PED DATE RDER PTH no K ed to sh oe wet	300 more by intermit	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	MILOAR TEMP LO dry SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # D TIME 15.5 OGGER CC	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI IENTS Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO	PEDDATE RDER PTH no K ed to shoe w et	30 anore by intermit	Tidbin Ti	THE TOTAL STATE OF THE TOTAL STA	ON LOGGER 2018 DO WATER 2018 D	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # D TIME 15.5 OGGER CC	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TETHER SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO	PED DATE RDER PTH no K ed to sh oe wet	30 anore by intermit	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # 15.5 OGGER CC R IF DRY, F	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO	PED DATE RDER PTH NO K Red to shoe wet PED DATE RDER PTH NO	30 anore by intermit	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # 15.5 OGGER CC R IF DRY, F	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 download O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED	PED DATE RDER FPTH no K ed to shoe wet PETH no K K K K K K K K K K K K K	mobDN TYPE 40	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # 15.5 OGGER CC R IF DRY, F	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED dow nload O	PED DATE RDER FPTH no K ed to sl oe w et CPE RDER CPE D DATE RDER FPTH no K 10676	mobDN TYPE 40	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # 15.5 OGGER CC R IF DRY, F	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED dow nload O Rpl # 17, SN	PED DATE RDER FPTH no K ed to sl oe w et CPE RDER CPE D DATE RDER FPTH no K 10676	mobDN TYPE 40	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # 15.5 OGGER CC R IF DRY, F	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED RPL# 18 dow nload O partially pulle appears to b SITE ID LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED dow nload O Rpl # 17, SN	PED DATE RDER FPTH no K ed to sl oe w et CPE RDER CPE D DATE RDER FPTH no K 10676	mobDN TYPE 40	Tidbin Ti	THE STATE OF THE S	ON LOGGER DO WATER	SERIAL WINLOAR TEMP	# 15.5 OGGER CC yes R IF DRY, F COMM d/s of # 15.5 OGGER CC R IF DRY, F	Moberly River 10676146 10:3 AIR TEMP DINDITIONS EASON tam HEIGHT ABOVI Moberly River 10676146 10:2 AIR TEMP DINDITIONS EASON HEIGHT ABOVI	22 22.0 pered EWATER 20 22.0	UTM CREW ICE CO	cm	6308 TIONS SOL 6307	BTYPE R TYPE uth 776 BC	TE none alder

BC HYDRO PEACE RIVER TEMPERATURE MONITORING - DOWNLOAD INFORMATION F SITE ID pineUP2 LOCATION u/s of Pine River BANK LOGGER TYPE Tidbit LOGGER SERIAL # 9767573 UTM 641653 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 11:02 CREW BC TEST RECORDER TYPE YSI WATER TEMP 15.2 AIR TEMP 24.0 ICE CONDITIONS	north
LOGGER TYPE Tidbit LOGGER SERIAL # 9767573 UTM 641653 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 11:02 CREW BC TEST RECORDER TYPE YSI WATER TEMP 15.2 AIR TEMP 24.0 ICE CONDITIONS	HOHH
DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 11:02 CREW BC TEST RECORDER TYPE YSI WATER TEMP 15.2 AIR TEMP 24.0 ICE CONDITIONS	6225304
LOGGER CONDITIONS	none
LOUGH CONDITIONS	
WATER DEPTH 100 cm DISLODGED no REASON	
BURIED yes FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER cm TETHER TYPE	balsam pop
COMMENTS	ваюант рор
dow nload OK Stainless steel cable OK labelled as "half UP1R"	
SITE ID pine UP1 LOCATION u/s of Pine River BANK south	
LOGGER TYPE Tidbit LOGGER SERIAL # 10669747 UTM 641034 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 10:53 CREW BC	6225372
DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 10:53 CREW BC TEST RECORDER TYPE YSI WATER TEMP 15.5 AIR TEMP 24.0 ICE CONDITIONS	none
LOGGER CONDITIONS	110110
WATER DEPTH 100 cm DISLODGED no REASON	
BURIED no FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER cm TETHER TYPE	alder
COMMENTS	
LOGGER TYPE Tidbit LOGGER SERIAL # 10893055 UTM 648362 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:09 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS	6222823 TE none
LOGGER TYPE Tidbit LOGGER SERIAL # 10893055 UTM 648362 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:09 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS LOGGER CONDITIONS	TE
LOGGER TYPE Tidbit LOGGER SERIAL # 10893055 UTM 648362 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:09 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS LOGGER CONDITIONS	TE
LOGGER TYPE Tidbit LOGGER SERIAL # 10893055 UTM 648362 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:09 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS LOGGER CONDITIONS WATER DEPTH 100 cm DISLODGED no REASON	TE none
Company	TE none
Tidbit	TE none alder
Code	TE none alder
LOGGER TYPE Tidbit LOGGER SERIAL # 10893055 UTM 648362 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:09 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER cm TETHER TYPE COMMENTS SITE ID pineDN1 LOCATION d/s of Pine River BANK south new stainless steel cable SITE ID pineDN1 LOGGER SERIAL # 10156319 UTM 648101 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:28 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS WATER DEPTH cm DISLODGED yes REASON debris	TE none alder
Correct Name	TE none alder
LOGGER TYPE Tidbit LOGGER SERIAL # 10893055 UTM 648362 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:09 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT ABOVE WATER cm TETHER TYPE COMMENTS SITE ID pineDN1 LOCATION d/s of Pine River BANK south LOGGER TYPE Tidbit LOGGER SERIAL # 10156319 UTM 648101 DOWNLOAD DATE 11 Jul 2018 DOWNLOAD TIME 13:28 CREW BC TEST RECORDER TYPE YSI WATER TEMP 17.7 AIR TEMP 24.0 ICE CONDITIONS WATER DEPTH cm DISLODGED yes REASON debris BURIED no FUNCTIONAL dry IF DRY, HEIGHT ABOVE WATER 30 cm TETHER TYPE COMMENTS	TE none alder
Company	TE none alder
LOGGER TYPE TIDE TO THE TOTAL	TE none alder 6222802 TE none
Correct	TE none alder 6222802 TE none
Cordinate	TE none alder 6222802 TE none

BC	HYD	RO PE	ACE RIV	/ER 1	ГЕМРЕ	ERATU	RE MON	NITORING - I	DOWNL	OAD II	NFO	RMATIO	N FO	ORM
SITEID		gmsUP1						//S Forebay		BANK				
LOGGER TY		_	idbit			SERIAL		10676155		UTM		E 400 44		6200022
DOWNLOAD						_	# DTIME	11:2	1	-		548841	BC	6209022
										CREW			ьс	
TEST RECO	RUER	YPE	YSI		WATE	RTEMP	7.1	AIR TEMP	4	ICECC	NDIT	IONS		none
						L		ONDITIONS						
WATER D	EPTH	100	cm I	DISLO	DGED	no	- 1	REASON						
BURIED	no		FUNCTIO	NAL	w et		IF DRY,	HEIGHT ABOVE	WATER		cm	TETHER TY	/PE	steel buoy
							COM	MENTS						
Dow nload C	K													
Stainless st	eel cab	e OK												
RPL#19														
SITEID		gmsUP2		ATION	ı		GN	//S Forebay		BANK				
LOGGER TY			idbit			SERIAL		10676160	_	UTM		548841		6209022
DOWNLOAI							DTIME	11:2:	-	CREW			BC	
TEST RECO	RDER 1	YPE	YSI		WATE	RTEMP	7.1	AIR TEMP	4	ICE CC	NDIT	TONS		none
WATER R	EDTU	4000			DOED			ONDITIONS						
WATER D		1000	FUNCTIO		DGED	no		REASON	\A/A TED			TCT ICD TV	/DE	
BURIED	no		FUNCTIO	MAL	w et			HEIGHT ABOVE	WATER		cm	TETHER TY	PE	steel buoy
							COM	VIENIS						
Dow nload C	nk.													
Stainless st		o OK												
RPL#20	eei cabi	e Or												
IXI L#20														
SITEID		gmsDN2	LOCA	ATION			GMS	Tailrace RDB		BANK				north
SITE ID LOGGER TY		_	LOC			SERIAL		Tailrace RDB 10669739		BANK UTM		548828		north 6207836
	/PE	1	idbit	LO	OGGER	-			1			548828	BC	6207836
LOGGER TY	PE DDATE	2	idbit	L (OGGER	WNLOA	#	10669739	1 7	UTM)NDIT			6207836
LOGGER TY	PE DDATE	2	idbit 2 Oct	L (OGGER 18 DO	WNLOA R TEMP	# D TIME 7.1	10669739 12:0		UTM CREW	NDIT			6207836 TE
LOGGER TY	PE D DATE ORDER 1	2	idbit 2 Oct YSI	20	OGGER 18 DO	WNLOA R TEMP	# D TIME 7.1 OGGER C	10669739 12:0 AIR TEMP		UTM CREW	NDIT			6207836 TE
LOGGER TY DOWNLOAI TEST RECO	PE D DATE ORDER 1	7 2: 1 YPE	idbit 2 Oct YSI	L(20 DISLO	OGGER 18 DO	WNLOA R TEMP	# D TIME 7.1 OGGER C I IF DRY,	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	7	UTM CREW			BC	6207836 TE
LOGGER TY DOWNLOAI TEST RECO	PED DATE RDER 1 EPTH	7 2: 1 YPE	idbit 2 Oct YSI	L(20 DISLO	OGGER 18 DO	WNLOA R TEMP	# D TIME 7.1 OGGER C I IF DRY,	10669739 12:0 AIR TEMP ONDITIONS REASON	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DO BURIED	PED DATE PROBRET EPTH NO	180	idbit 2 Oct YSI cm I	20 DISLO	OGGER 18 DO WATER DDGED w et	WNLOA R TEMP Lono	# D TIME 7.1 OGGER C IF DRY, COMM	10669739 12:0' AIR TEMP ONDITIONS REASON HEIGHT ABOVE	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DO BURIED Back-up log	PED DATE DROER 1 EPTH no ger gms	180 180 5DN2-BL	idbit 2 Oct YSI cm I	20 DISLO	OGGER 18 DO WATER DDGED w et	WNLOA R TEMP Lono	# D TIME 7.1 OGGER C IF DRY, COMM	10669739 12:0' AIR TEMP ONDITIONS REASON HEIGHT ABOVE	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED Back-up log both downlo	PED DATE DRDER 1 EPTH no ger gms pads Oh	180 180 5DN2-BU	idbit 2 Oct YSI cm I FUNCTIO	DISLO DNAL	OGGER 18 DO WATER DDGED w et	wnLoA R TEMP Lono	D TIME 7.1 OGGER C I IF DRY, COMM	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DO BURIED Back-up log both downlo	PEPTH no ger gms pads Oftainless	180 180 SDN2-BU	idbit 2 Oct YSI cm I FUNCTIO	DISLODNAL S/N20 on attack	OGGER 18 DO WATER DDGED w et	wnLoA R TEMP Lono	D TIME 7.1 OGGER C I IF DRY, COMM	10669739 12:0' AIR TEMP ONDITIONS REASON HEIGHT ABOVE	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DE BURIED Back-up log both downlo	PEPTH no ger gms pads Oftainless	180 180 SDN2-BU	idbit 2 Oct YSI cm I FUNCTIO	DISLODNAL S/N20 on attack	OGGER 18 DO WATER DDGED w et	wnLoA R TEMP Lono	D TIME 7.1 OGGER C I IF DRY, COMM	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DO BURIED Back-up log both downlo	PEPTH no ger gms pads Oftainless	180 180 SDN2-BU	idbit 2 Oct YSI cm I FUNCTIO	DISLODNAL S/N20 on attack	OGGER 18 DO WATER DDGED w et	wnLoA R TEMP Lono	D TIME 7.1 OGGER C I IF DRY, COMM	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS	7	UTM CREW		TIONS	BC	6207836 TE none
LOGGER TY DOWNLOAD TEST RECO WATER DO BURIED Back-up log both downlo	PEPTH no ger gms pads Oftainless	180 180 SDN2-BU	idbit 2 Oct YSI cm I FUNCTIO	DISLODNAL S/N20 on attack	OGGER 18 DO WATER DDGED w et	wnLoA R TEMP Lono	D TIME 7.1 OGGER C I IF DRY, COMM	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS	7	UTM CREW		TIONS	BC	6207836 TE none
WATER DOWNLOAD TEST RECO WATER DO BURIED Back-up log both downlo cable ok (st Primary Log	PED DATE DRDER 1 EPTH no ger gms pads Obtainless ger-Rpl	180 180 SDN2-BL (steel ca #11, SN	cm I FUNCTIO	DISLODIAL S/N20 on attace	OGGER 18 DO WATER DOGED wet 0332121 ched to	wnLoA R TEMP Lono	D TIME 7.1 OGGER C I IF DRY, COMI	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WIENTS 12:01 around rock)	7	UTM CREW ICE CO		TETHER TY	BC	6207836 TE none
LOGGER TY DOWNLOAI TEST RECO WATER DI BURIED Back-up log both downlo cable ok (st Primary Log	PED DATE DRDER 1 EPTH no ger gms pads Oftainless ger-Rpl	180 180 SDN2-BL (steel ca #11, SN	cm I FUNCTIO	DISLO	OGGER 18 DO WATER DOGED wet 0332121 ched to	WNLOAR TEMP Long no in same	# D TIME 7.1 OGGER C I I IF DRY, COMIN e capsule 2 ed cable	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS 12:01 around rock)	7	UTM CREW ICE CO		TETHER TY	BC YPE	6207836 TE none rock
Back-up log both downlocable ok (st Primary Log	PED DATE DRDER 1 EPTH no ger gms pads Obtainless ger-Rpl	180 180 SDN2-BL (steel ca #11, SN	cm I FUNCTIO	DISLODINAL S/N20 on attack	OGGER 18 DO WATEF DOGED wet 0332121 ched to	WNLOAR TEMP Long no in same galvaniz	D TIME 7.1 OGGER C I IF DRY, COMIN	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS 12:01 around rock)	7 EWATER	UTM CREW ICE CO		TETHER TY	BC YPE	6207761
Back-up log both download cable ok (st Primary Log LOGGER T) DOWNLOAD	PED DATE PROPER 1 PROPER	180 180 SDN2-BL (steel ca #11, SN	cm I FUNCTION I 1066973:	20 DISLO S/N20 on attach	OGGER 18 DO WATER DOGED wet 0332121 ched to	MNLOAR TEMP Loan no in same galvaniz	D TIME 7.1 OGGER C I IF DRY, COMIN c capsule ded cable GMS # D TIME	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WIENTS 12:01 around rock) 6 Tailrace LDB 10635063 12:11	7 EWATER	UTM CREW ICE CO	cm	TETHER TY south 548881	BC YPE	6207761 FE none rock
Back-up log both downlocable ok (st Primary Log	PED DATE PROPER 1 PROPER	180 180 SDN2-BL (steel ca #11, SN	cm I FUNCTIO	20 DISLO S/N20 on attach	OGGER 18 DO WATER DOGED wet 0332121 ched to	MNLOAR TEMP Lo no in same galvaniz SERIAL WNLOAR TEMP	D TIME 7.1 OGGER C IF DRY, COMIN Capsule Capsu	10669739 12:0 AIR TEMP ONDITIONS REASON HEIGHT ABOVE WENTS 12:01 around rock) Tailrace LDB 10635063 12:11 AIR TEMP	7 EWATER	UTM CREW ICE CO	cm	TETHER TY south 548881	BC YPE	6207761
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BC HYD	RO PEA	CE RIVER	TEMP	ERATU	IRE MON	ITORING -	DOWNL	OAD I	NFC	RMAT	TON F	ORM
SITEID	pcnUP1	LOCATIO	N		PCN	N Forebay		BANK				north
LOGGER TYPE	Tir	dbit	LOGGER	SFRIAL		10635067		UTM		562	684	6204075
DOWNLOAD DATE	22		2018 DO	_		13:1	0	CREW		002	BC	
TEST RECORDER		YSI		RTEMP		AIR TEMP	8.0	ICECC	ורואר	LIUNG		none
TEST RECORDER		101	WAIL		OGGER CC		0.0	ICECC	INDI	IONS		TIOTIC
MATER REPUT	400	DIO	ODOED									
WATER DEPTH	100	cm DISL		no		EASON						
BURIED no		FUNCTIONAL	L wet		•	EIGHT ABOVE	WATER		cm	TETHE	RTYPE	log boom
					COMM	ENTS						
dow nload OK												
all stainless steel c												
Rpl #10, SN 106350)67											
SITEID	pcnDN2	LOCATIO				N Tailrace		BANK				north
LOGGER TYPE			LOGGER			10156317		UTM		562	803	6204854
DOWNLOAD DATE			2018 DO			13:2		CREW			ВС	
TEST RECORDER	TYPE	YSI	WATE	RTEMP		AIR TEMP	8.0	ICE CC	DNDI	TIONS		none
MATER REPUT	000	DICI	ODOED		OGGER CC							
WATER DEPTH	200	cm DISL FUNCTIONAL		no		EASON	- MATED			TET 150	7 T/DE	
BURIED no		-UNC HUNAI	L w et		COMM	EIGHT ABOVE	WATER		cm	TETHE	KITPE	rock
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		LOCATION DISTRIBUTION CONTRACTOR LOCATION CONT		SFRIAL		N Tailrace 10635061		BANK		562	803	north 6204854
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LOGGER TYPE	Tio 22	dbit	LOGGER 2018 DO		. #	10635061	0 8.0					6204854
LOGGER TYPE DOWNLOAD DATE	Tio 22	dbit Oct 2	LOGGER 2018 DO	WNLOA R TEMP	.# DTIME	10635061 13:3 AIR TEMP		UTM CREW				6204854 TE
LOGGER TYPE DOWNLOAD DATE	Tio 22	dbit Oct 2	LOGGER 2018 DO WATER	WNLOA R TEMP	.# AD TIME 7.1 OGGER CO	10635061 13:3 AIR TEMP		UTM CREW				6204854 TE
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tic 22 TYPE 200	dbit Oct 2 YSI cm DISL	LOGGER 2018 DO' WATER	WNLOA R TEMP	.# 7.1 OGGER CO	10635061 13:3 AIR TEMP ONDITIONS EASON EIGHT ABOVE	8.0	UTM CREW	ONDIT	FIONS	ВС	6204854 TE none
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LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no download OK all stainless steel c Anchored to same Rpl #9, SN1063506	Tic 22 TYPE 200 F able ok rock as po	DISLETIONAL	LOGGER 2018 DO' WATER LODGED L wet	WNLOAR TEMP	.# AD TIME 7.1 OGGER CC RI IF DRY, H	10635061 13:3 AIR TEMP ONDITIONS EASON EIGHT ABOVE	8.0	UTM CREW ICE CO	ONDIT	FIONS	ВС	6204854 TE none
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	lfUP2	LOCAT				lalfway River		BANK			north
OGGER TYPE	Tidl		LOGGER	SERIAL		20030829		UTM	59	95569	6230541
DOWNLOAD DATE	23	Oct	2018 DO	_		11:44	ļ	CREW		BC	
TEST RECORDER TY	PE	YSI	WATER	RTEMP	6.6	AIR TEMP	2		NDITIONS	;	none
				LC	OGGER CO	ONDITIONS					
WATER DEPTH	150	cm DI	SLODGED	no	R	EASON					
BURIED no		UNCTION				EIGHT ABOVE	WATER		cm TETH	IFR TYPE	cpruco
BOITED 110		ono mon	AL WOL		COMM		WATER		OIII TEIT	ILICITIE	spruce
dow nload OK cable OK RPL#33 S/N20030829 partially pulled to shor		et									
	lfUP1	LOCAT				Halfway River		BANK		outh	
LOGGER TYPE	Tidl		LOGGER	_		20322123	•	UTM	59	95165	6230094
DOWNLOAD DATE FEST RECORDER TYI	23 PF	Oct YSI	2018 DO	WNLOAL RTEMP	6.6	12:03 AIR TEMP	2	CREW	NDITIONS	BC	none
LOT NECONDER 111	_	1 31	VVAICE			ONDITIONS		ICECO	NDITIONS		TIOTIE
WATER DEPTH	200	cm DI	SLODGED	no		EASON					_
BURIED no		UNCTION				EIGHT ABOVE	WATER		cm TETH	IER TYPE	spruce tre
					COMM	ENTS					
	lf DN2	LOCAT		SEDIAL		Halfway River		BANK	50	08313	north
SITE ID ha LOGGER TYPE DOWNLOAD DATE	If DN2 Tidl 23		TION LOGGER 2018 DO		#	Halfway River 10669748 12:47	,	BANK UTM CREW	59	98313 BC	6232378
LOGGER TYPE DOWNLOAD DATE	Tidl 23	bit	LOGGER 2018 DO		#	10669748	4	UTM CREW	55	ВС	6232378
LOGGER TYPE DOWNLOAD DATE	Tidl 23	oit Oct	LOGGER 2018 DO	WNLOAD	# D TIME 4.6	10669748 12:47		UTM CREW		ВС	6232378 TE
LOGGER TYPE DOWNLOAD DATE	Tidl 23	Oct YSI	LOGGER 2018 DO	WNLOAD	# 4.6 OGGER CO	10669748 12:47 AIR TEMP DNDITIONS EASON	4	UTM CREW	NDITIONS	BC	6232378 TE
OGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	Tidl 23 PE 150	Oct YSI cm Di	LOGGER 2018 DO WATER	WNLOAD R TEMP LC	# 4.6 OGGER CO	10669748 12:47 AIR TEMP DNDITIONS EASON IEIGHT ABOVE	4	UTM CREW		BC	6232378 TE
LOGGER TYPE DOWNLOAD DATE FEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable (Tidl 23 PE 150 FU	Oct YSI cm Di	LOGGER 2018 DO' WATER	WNLOAD R TEMP LC	# 2.6 DGGER CC R IF DRY, H	10669748 12:47 AIR TEMP DNDITIONS EASON IEIGHT ABOVE	4	UTM CREW	NDITIONS	BC	6232378 TE none
LOGGER TYPE DOWNLOAD DATE FEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable C RpI #15, SN 1066974	150 FI	Oct YSI Cm DIS	LOGGER 2018 DO' WATER SLODGED AL w et	WNLOAD R TEMP LC	# D TIME 4.6 OGGER CO R IF DRY, F	10669748 12:47 AIR TEMP DNDITIONS EASON HEIGHT ABOVE ENTS	4	UTM CREW	NDITIONS	BC	6232378 TE none willow
OGGER TYPE DOWNLOAD DATE FEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable C Rpl #15, SN 1066974	Tidl 23 PE 150 FI DK 8	Oct YSI Cm DIS UNCTION	LOGGER 2018 DO' WATER SLODGED AL wet	WNLOAL RTEMP LC	# 4.6 DGGER CO R IF DRY, F COMM	10669748 12:47 AIR TEMP DINDITIONS EASON HEIGHT ABOVE ENTS Half w ay River 10156314	4 WATER	UTM CREW ICE CO	NDITIONS	BC BER TYPE 98286	6232378 TE none w illow north 6232337
OGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no download ok stainless steel cable C Rpl #15, SN 1066974	Tidl 23 PE 150 FI DK 8 DN2_BU Tidl 23	Oct YSI Cm DISTUNCTION LOCAT bit Oct	LOGGER 2018 DO' WATER SLODGED AL wet LOGGER 2018 DO'	WNLOAL RTEMP LC	# 4.6 DGGER CO R IF DRY, F COMM	10669748 12:47 AIR TEMP DINDITIONS EASON HEIGHT ABOVE ENTS Half w ay River 10156314 12:25	4 WATER	UTM CREW ICE CO	MDITIONS Cm TETI-	BC BER TYPE 98286 BC	6232378 TE none willow north 6232337 TE
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BO	C HYDI	RO PE	ACE RIV	ER T	ГЕМРЕ	ERATU	IRE MON	NITORING - I	DOWNL	OAD I	NFC	RMA [*]	TION F	ORM
SITEID		mobUP2						Moberly River		BANK				north
LOGGER T			Tidbit			SERIAL		10669754		UTM		627	7501	6232563
DOWNLOA			9 Oct			_	DTIME	11:58	0			027		TE
			YSI					AIR TEMP		CREW			ьс	
TEST RECO	JKDEK I	TPE	1 01	_	WAIE	R TEMP			5.0	ICEC	וטאכ	IONS		none
						L		ONDITIONS						
WATER D	EPTH	150	cm C	ISLO	DGED	no	F	REASON						
BURIED	no		FUNCTIO	NAL	w et		IF DRY,	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	spruce
							COM	MENTS						
RPL#16, SN	106697	754												
dow nload o	k													
SITEID		mobUP1	LOCA	TION			u/s of	Moberly River		BANK		so	uth	
LOGGER T	YPE	-	Tidbit	LC	OGGER	SERIAL	. #	10887852		UTM		627	7158	6232349
DOWNLOA	D DATE	. 1	9 Oct	20	18 DO	WNLOA	DTIME	12:16	6	CREW			ВС	TE
TEST RECO	ORDER T	YPE	YSI		WATER	RTEMP	6.9	AIR TEMP	5.0	ICE CO	ONDI	TIONS		none
						L	OGGER C	ONDITIONS						
WATER D	EPTH	150	cm C	ISLO	DGED	no	F	REASON						
BURIED	no		FUNCTIO	NAL	w et		IF DRY, I	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	alder
							COM	MENTS						
RPL# 21, SI	V108878	352												
stainless ca	able ok													
dow nload o	k													
SITEID			BU LOCA					Moberly River		BANK			uth	
LOGGER T	YPE	-	Tidbit	LC	OGGER	SERIAL	. #	10676147		UTM)875	6229275
LOGGER T	YPE D DATE	1	Tidbit 9 Oct	L (OGGER 18 DO	WNLOA	.# ADTIME	10676147 12:38		UTM CREW		630)875	TE
LOGGER T	YPE D DATE	1	Tidbit	L (OGGER	WNLOA R TEMP	. # AD TIME 6.8	10676147 12:38 AIR TEM P	8 5.0	UTM		630)875	
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LOGGER TO DOWNLOAD TEST RECOME TO BURIED COME TO DOWNLOAD TEST RECOME TO DOWNLOAD TEST RECOME TEST REC	YPE D DATE DEPTH NO YPE D DATE DROBER 1 EPTH NO CK	150 150 150 150 150 150 150 170 100	Tidbit 9 Oct YSI cm E FUNCTION LOCA Tidbit 9 Oct YSI cm E	LC 20 DISLO DISLO DISLO DISLO	OGGER 18 DO' WATEF DOGED wet	WNLOAR TEMP L no SERIAL WNLOAR TEMP L	d/s of AD TIME 6.8 OGGER C IF DRY, I COMIN	Moberly River 10676146 12:38 AIR TEMP ONDITIONS REASON HEIGHT ABOVE MENTS Moberly River 10676146 12:37 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	5.0 EWATER 1 5.0	UTM CREW ICE CO	cm	630 TETHE so 630	D875 BC R TYPE uth D776 BC	TE none alder 6229287 TE none

BC HVDBC	DEAC	E BIVED	TEMPEDATI	IDE MON	UTORING F			EODMAI	TION F	ODM
		LOCATIO	TEMPERATU		of Pine River	JOWNL	BANK	IFURIVIA	ION F	north
OGGER TYPE	Tidbi		LOGGER SERIAL		9767573		UTM	6/1	653	6225304
DOWNLOAD DATE	19		2018 DOWNLOA		13:14	1	CREW	041	BC	
TEST RECORDER TYPE		YSI	WATER TEMP		AIR TEMP	7.0		NDITIONS	ьс	none
EST RECORDER TH		1 31			ONDITIONS	7.0	ICECOI	NDITIONS		TIONE
WATER DEPTH	00	om DICI				o u o al				
WATER DEPTH	80	cm DISL		,	REASON tamp					
BURIED no	FUI	NCTIONAL	w et	•	HEIGHT ABOVE	WATER		cm TETHE	RIYPE	balsam por
				COMM	IENI S					
abelled as "half UP1R"										
dow nload OK	N/									
Stainless steel cable C oulled to shore but we										
Julied to Shore but we	ŧl.									
SITE ID pin	eUP1	LOCATIO	DN	u/s o	of Pine River		BANK	so	uth	
OGGER TYPE	Tidbi		LOGGER SERIAL		10669747		UTM		034	6225372
DOWNLOAD DATE	19		2018 DOWNLOA		13:02	2	CREW		ВС	
EST RECORDER TYPE	PE	YSI	WATER TEMP	6.9	AIR TEMP	5.0	ICE CO	NDITIONS		none
					ONDITIONS					
WATER DEPTH		cm DISL			REASON					
BURIED no	FUI	NCTIONAL	_ w et	•	HEIGHT ABOVE	WATER		m TETHE	RTYPE	alder
				COMM	MENTS					
ow nload OK										
Rpl # 14, SN 10669747	7									
Stainless steel cable C										
SITE ID pine D	DN1_BU	LOCATIO	N	d/s d	of Pine River		BANK	so	uth	
OGGER TYPE	Tidbi	it I	LOGGER SERIAL	_ #	10893055		UTM	648	362	6222823
DOWNLOAD DATE	19	Oct 2	2018 DOWNLOA	AD TIME	14:21		CREW		BC	TE
TEST RECORDER TYPE	PE	YSI	WATER TEMP		AIR TEMP	10.0	ICE CO	NDITIONS		none
					ONDITIONS					
WATER DEPTH		cm DISL			REASON					
BURIED no	FUI	NCTIONAL	_ w et	•	HEIGHT ABOVE	WATER		cm TETHE	RTYPE	alder
				COMM	MENTS					
RPL# 25										
dow nload ok		, .								
tainless steel cable re	eplaced b	y chain								
NITE ID	-DNG			.,	/ B' - B'		B.4.1.1.1			
		LOCATIO			of Pine River		BANK		uth	0000
LOGGER TYPE	Tidbi		LOGGER SERIAL		10156319		UTM	648	101	6222802
DOWNLOAD DATE	19		2018 DOWNLOA		14:06		CREW		ВС	
EST RECORDER TYP	'E	YSI	WATER TEMP		AIR TEMP	10.0	ICE CO	NDITIONS		none
WATER DEPTH	150	om Diei			ONDITIONS					
WATER DEPTH	150	cm DISL			REASON	MATER		TETLE		=1.4
BURIED no	FUI	NCTIONAL	_ w et	•	HEIGHT ABOVE	WATER		cm TETHE	KIYPE	alder
DOI WED THE				COMM	II LINI 3					
RPL#1										
RPL#1 low nload OK	JK.									
RPL#1	OK									
RPL#1 ow nload OK	DK .									
RPL#1 ow nload OK	DK									
PL#1 ow nload OK	DK									

BC.	HYDI	RO PFA	CF RIVE	R TEMPI	FRATU	RE MON	ITORING - D	OWNI	OADII	NFO	RMAT	ION F	ORM
SITEID		gmsUP1	LOCAT				S Forebay	<u> </u>	BANK	11 0	1 (1017 (1)		<u> </u>
LOGGER TYP		Tid			0==141						= 400		
	_			LOGGER	_		10676155		UTM		5488		6209022
DOWNLOAD			Mar	2019 DO			13:08		CREW			ВС	
TEST RECOR	RDER T	YPE	YSI	WATE	RTEMP	0.6	AIR TEMP	8	ICECC	NDIT	IONS	Re	s. Frozen
					LC	OGGER CC	ONDITIONS						
WATER DE	PTH	100	cm DI	SLODGED	no	R	EASON						
BURIED	no	F	UNCTION	AL wet		IF DRY. H	EIGHT ABOVE	NATER		cm ·	TETHER	TYPF	steel buoy
20:02						COMM				0111			3teer buoy
						•							
RPL#19													
Low battery;	Loggo	r roploco	l with DDI	#42 (SN 20	12221071								
Dow nload Ok		Теріасес	I W IUI INFL	.#43 (SN 20	1332 101)								
Dow fiload Or	`												
SITEID		gmsUP2	LOCAT				S Forebay		BANK				
LOGGER TYP			bit	LOGGER	_		10676180		UTM		5488		6209022
DOWNLOAD			Mar	2019 DO			13:11		CREW			ВС	
TEST RECOR	RDER T	YPE	YSI	WATE	RTEMP	0.6	AIR TEMP	8	ICECC	NDIT	IONS	Re	s. Frozen
					LC		NDITIONS						
WATER DE	PTH	1000		SLODGED	no		EASON						
BURIED	no	F	UNCTION	AL wet			EIGHT ABOVE	WATER		cm	TETHER	TYPE	steel buoy
						COMM	ENTS						
RPL#20													
Dow nload Ok	<												
SITEID		gmsDN2	LOCAT	ION		GMS 1	Failrace RDB		BANK				north
SITE ID LOGGER TYP		gms DN2 Tid		TION LOGGER	SERIAL		Failrace RDB 10669739		BANK UTM		5488	328	north 6207836
	PE	Tid				#					5488	328 BC	6207836
LOGGER TYP	PE DATE	Tid	bit	LOGGER 2019 DO		#	10669739	-6	UTM	DNDIT			6207836
LOGGER TYPE	PE DATE	Tid	bit Jan	LOGGER 2019 DO	WNLOAI R TEMP	# D TIME 2.5	10669739 13:48		UTM CREW	NDIT			6207836 TE
LOGGER TYPE	PE DATE RDER T	Tid	Jan YSI	LOGGER 2019 DO	WNLOAI R TEMP	# D TIME 2.5	10669739 13:48 AIR TEMP		UTM CREW	DNDIT			6207836 TE
LOGGER TYP DOWNLOAD TEST RECOR	PE DATE RDER T	Tid 11 'YPE	Jan YSI	LOGGER 2019 DO WATER	WNLOAI R TEMP LO	# 2.5 OGGER CO	10669739 13:48 AIR TEMP ONDITIONS	-6	UTM CREW			ВС	6207836 TE
LOGGER TYP DOWNLOAD TEST RECOR WATER DEI	PE DATE RDER T	Tid 11 'YPE	bit Jan YSI cm DI	LOGGER 2019 DO WATER SLODGED	WNLOAI R TEMP LO	# 2.5 OGGER CO	10669739 13:48 AIR TEMP DIDITIONS EASON	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYP DOWNLOAD TEST RECOR WATER DEI	PE DATE RDER T	Tid 11 'YPE	bit Jan YSI cm DI	LOGGER 2019 DO WATER SLODGED	WNLOAI R TEMP LO	# D TIME 2.5 DGGER CC R IF DRY, H	10669739 13:48 AIR TEMP DIDITIONS EASON	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYP DOWNLOAD TEST RECOR WATER DEI	PE DATE RDER T PTH no	110 Tid	Jan YSI cm Dis	LOGGER 2019 DO WATER SLODGED AL wet	DWNLOAI R TEMP LO	# D TIME 2.5 OGGER CO R IF DRY, H	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECOR WATER DEL BURIED	PE DATE RDER T PTH no er gms	Tid 11 TYPE 150 F DN2-BU F	Jan YSI cm Dis	LOGGER 2019 DO WATER SLODGED AL wet	DWNLOAI R TEMP LO	# D TIME 2.5 OGGER CO R IF DRY, H	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECOR WATER DEL BURIED Back-up logge	PE DATE RDER T PTH no er gms ads Ok	Tid 11 TYPE 150 F SDN2-BU F	bit Jan YSI cm DI: UNCTION	LOGGER 2019 DO WATER SLODGED AL wet	NWNLOAI R TEMP LO no	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECOR WATER DEI BURIED Back-up logge both dow nloa	PE DATE RDER T PTH no er gms ads Okainless	Tid 11 TYPE 150 F SDN2-BU F (steel cable)	Jan YSI cm DIS UNCTION RPL#367, See section	LOGGER 2019 DO WATER SLODGED AL wet	NWNLOAI R TEMP LO no	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEL BURIED Back-up logge both download cable ok (sta	PE DATE RDER T PTH no er gms ads Okainless	Tid 11 TYPE 150 F SDN2-BU F (steel cable)	Jan YSI cm DIS UNCTION RPL#367, See section	LOGGER 2019 DO WATER SLODGED AL wet	NWNLOAI R TEMP LO no	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEL BURIED Back-up logge both download cable ok (sta	PE DATE RDER T PTH no er gms ads Okainless	Tid 11 TYPE 150 F SDN2-BU F (steel cable)	Jan YSI cm DIS UNCTION RPL#367, See section	LOGGER 2019 DO WATER SLODGED AL wet	NWNLOAI R TEMP LO no	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS	-6	UTM CREW		TIONS	ВС	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEL BURIED Back-up logge both download cable ok (sta	PE DATE RDER T PTH no er gms ads Okainless	Tid 11 TYPE 150 F SDN2-BU F (steel cable)	Jan YSI cm DIS UNCTION RPL#367, See section	LOGGER 2019 DO WATER SLODGED AL wet	NWNLOAI R TEMP LO no	# D TIME 2.5 OGGER CC RI IF DRY, H COMM	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS	-6	UTM CREW		TIONS	ВС	6207836 TE none
WATER DEL BURIED Back-up logge both dow nloa cable ok (sta Primary Logge	PE DATE RDER T PTH no er gms ads Ok ainless er-Rpl	Tid 11 TYPE 150 F 6DN2-BU F (steel cable #11, SN 1	Jan YSI cm DIS UNCTION RPL#367, S e section 0669739	LOGGER 2019 DO WATER SLODGED AL w et S/N2033212 attached to	NWNLOAI R TEMP LO no	# D TIME 2.5 DGGER CO RI IF DRY, H COMM The capsule and cable a	10669739 13:48 AIR TEMP DINDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock)	-6	UTM CREW ICE CO		TETHER	BC TYPE	6207836 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DELE BURIED Back-up logge both dow nloat cable ok (stat Primary Logge SITE ID	PE DATE DATE RDER T PTH no er gms ads Ok ainless er-Rpl	Tid 11 TYPE 150 F 5DN2-BU F (steel cabl #11, SN 1	Jan YSI cm DIS UNCTION RPL#367, S e section 0669739	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to	NWNLOAN R TEMP LC no no 21 in same p galvaniz	# D TIME 2.5 DGGER CO RI IF DRY, H COMM The capsule and cable and	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock)	-6	UTM CREW ICE CO		TETHER	BC TYPE	6207836 TE none rock
WATER DEI BURIED Back-up logge both dow nloa cable ok (sta Primary Logge SITE ID LOGGER TYP	PE DATE DATE RDER T PTH no er gms ads Ok ainless er-Rpl	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid	Jan YSI Cm DIS UNCTION RPL#367, S e section 0669739	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to	OWNLOAN R TEMP LC no no 21 in same o galvaniz	# D TIME 2.5 DGGER CO RI IF DRY, H COMM The capsule and cable and	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063	-6	UTM CREW ICE CO		TETHER	BC TYPE	6207761
LOGGER TYPE DOWNLOAD TEST RECORE WATER DELE BURIED Back-up logge both dow nload cable ok (state) Primary Logge SITE ID LOGGER TYPE DOWNLOAD	PE DATE DATE PTH no er gms ads Ok ainless er-Rpl	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11	Jan YSI Cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO	WNLOAN R TEMP LC no no 21 in same a galvaniz	# D TIME 2.5 DGGER CO RI IF DRY, H COMM De capsule Red cable a	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05	-6 WATER	UTM CREW ICE CO	cm	TETHER sou 5488	BC TYPE	6207761 TE none
WATER DEI BURIED Back-up logge both dow nloa cable ok (sta Primary Logge SITE ID LOGGER TYP	PE DATE DATE PTH no er gms ads Ok ainless er-Rpl	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11	Jan YSI Cm DIS UNCTION RPL#367, S e section 0669739	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO	NWNLOAN R TEMP LC no 21 in same or galvanize R SERIAL DWNLOAN R TEMP	# D TIME 2.5 DGGER CO RI IF DRY, H COMM De capsule 2 Ced cable a GMS - # D TIME 1.7	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP	-6	UTM CREW ICE CO	cm	TETHER sou 5488	BC TYPE	6207761
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEL BURIED Back-up logge both dow nload cable ok (sta Primary Logge SITE ID LOGGER TYPE DOWNLOAD TEST RECORE	PE DATE TO THE PE DAT	Tid 11 TYPE 150 F 5DN2-BU F (steel cabl #11, SN 1 Tid 11 TYPE	bit Jan YSI cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER	R TEMP LC no 21 in sam galvaniz SERIAL DWNLOAIR TEMP LC	# D TIME 2.5 DGGER CO R IF DRY, H COMM De capsule 2 Sed cable a GMS 7 # D TIME 1.7 DGGER CO	10669739 13:48 AIR TEMP DINDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DINDITIONS	-6 WATER	UTM CREW ICE CO	cm	TETHER sou 5488	BC TYPE	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BACK-UP logge both dow nloat cable ok (stat Primary Logge SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI	PE DATE RDER TO THE PE DAT	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11 TYPE 200	bit Jan YSI cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI cm DIS	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER	NWNLOAN R TEMP LC no 21 in same or galvanize R SERIAL DWNLOAN R TEMP	# D TIME 2.5 DGGER CC RI IF DRY, H COMM DE Capsule Sed cable a GMS # D TIME 1.7 DGGER CC RI	10669739 13:48 AIR TEMP DNDITIONS EASON IEIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DNDITIONS EASON	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEL BURIED Back-up logge both dow nload cable ok (sta Primary Logge SITE ID LOGGER TYPE DOWNLOAD TEST RECORE	PE DATE TO THE PE DAT	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11 TYPE 200	bit Jan YSI cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER	R TEMP LC no 21 in sam galvaniz SERIAL DWNLOAIR TEMP LC	# D TIME 2.5 DGGER CO RI IF DRY, H COMM DE Capsule Sed cable a GMS # D TIME 1.7 DGGER CO RI IF DRY, H	10669739 13:48 AIR TEMP DINDITIONS EASON IEIGHT ABOVE V ITAIN TO A STATE OF THE STA	-6 WATER	UTM CREW ICE CO	cm i	TETHER sou 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BACK-UP logge both dow nloat cable ok (stat Primary Logge SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI	PE DATE RDER TO THE PE DAT	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11 TYPE 200	bit Jan YSI cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI cm DIS	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER	R TEMP LC no 21 in sam galvaniz SERIAL DWNLOAIR TEMP LC	# D TIME 2.5 DGGER CC RI IF DRY, H COMM DE Capsule Sed cable a GMS # D TIME 1.7 DGGER CC RI	10669739 13:48 AIR TEMP DINDITIONS EASON IEIGHT ABOVE V ITAIN TO A STATE OF THE STA	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BACK-UP logge both dow nloat cable ok (stat Primary Logge SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI	PE DATE RDER TO THE PE DAT	Tid 11 TYPE 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11 TYPE 200	bit Jan YSI cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI cm DIS	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER	R TEMP LC no 21 in sam galvaniz SERIAL DWNLOAIR TEMP LC	# D TIME 2.5 DGGER CO RI IF DRY, H COMM DE Capsule Sed cable a GMS # D TIME 1.7 DGGER CO RI IF DRY, H	10669739 13:48 AIR TEMP DINDITIONS EASON IEIGHT ABOVE V ITAIN TO A STATE OF THE STA	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nloat cable ok (stat Primary Logger SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED	PE DATE RDER TO THE PTH NO SERVICE SER	Tid 11 TYPE 150 F 5DN2-BU F (steel cable #11, SN 1 Tid 11 TYPE 200 F	bit Jan YSI Cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI Cm DIS UNCTION	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER SLODGED AL wet	R TEMP LC no 21 in sam galvaniz R SERIAL WILLOAR TEMP LC no	# D TIME 2.5 DGGER CO RIFE DRY, HE COMM GMS THE D TIME 1.7 DGGER CO RIFE DRY, HE COMM	10669739 13:48 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload cable ok (state) Primary Logger SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logger Buried	PE DATE RDER TO THE PTH NO SERVICE SER	Tid 11 TYPE 150 F 5DN2-BU F (steel cable #11, SN 1 Tid 11 TYPE 200 F 5DN1-BU F	bit Jan YSI Cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI Cm DIS UNCTION	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER SLODGED AL wet	R TEMP LC no 21 in sam galvaniz R SERIAL WILLOAR TEMP LC no	# D TIME 2.5 DGGER CO RIFE DRY, HE COMM GMS THE D TIME 1.7 DGGER CO RIFE DRY, HE COMM	10669739 13:48 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload cable ok (state) Primary Logger SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload	PE DATE OF THE PTH NO SERVICE OF THE PTH NO	Tid 11 150 F 150 F SDN2-BU F (steel cabl #11, SN 1 Tid 11 TYPE 200 F	bit Jan YSI Cm DIS UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI Cm DIS UNCTION	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER SLODGED AL wet	R TEMP LC no 21 in same 22 galvaniz 23 SERIAL 25 SERIAL 26 OWNLOAIR 26 no 27 in same	# D TIME 2.5 DGGER CO R IF DRY, H COMM De capsule 2 Ed cable a GMS 7 # D TIME 1.7 DGGER CO R IF DRY, H COMM	10669739 13:48 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 4:06	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload cable ok (state) Primary Logger SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload cable ok (state)	PE DATE ROBER TO THE ROBERT	Tid 11 TYPE 150 F 5DN2-BU F (steel cable #11, SN 1 Tid 11 TYPE 200 F 5DN1-BU F (steel cable #11	bit Jan YSI cm DI: UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI cm DI: UNCTION	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER SLODGED AL wet	R TEMP LC no 21 in same 22 galvaniz 23 SERIAL 25 SERIAL 26 OWNLOAIR 26 no 27 in same	# D TIME 2.5 DGGER CO R IF DRY, H COMM De capsule 2 Ed cable a GMS 7 # D TIME 1.7 DGGER CO R IF DRY, H COMM	10669739 13:48 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 4:06	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none
LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload cable ok (state) Primary Logger SITE ID LOGGER TYPE DOWNLOAD TEST RECORE WATER DEI BURIED Back-up logge both dow nload	PE DATE ROBER TO THE ROBERT	Tid 11 TYPE 150 F 5DN2-BU F (steel cable #11, SN 1 Tid 11 TYPE 200 F 5DN1-BU F (steel cable #11	bit Jan YSI cm DI: UNCTION RPL#367, S e section 0669739 LOCAT bit Jan YSI cm DI: UNCTION	LOGGER 2019 DO WATER SLODGED AL wet S/N2033212 attached to LOGGER 2019 DO WATER SLODGED AL wet	R TEMP LC no 21 in same 22 galvaniz 23 SERIAL 25 SERIAL 26 OWNLOAIR 26 no 27 in same	# D TIME 2.5 DGGER CO R IF DRY, H COMM De capsule 2 Ed cable a GMS 7 # D TIME 1.7 DGGER CO R IF DRY, H COMM	10669739 13:48 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 13:47 Iround rock) Tailrace LDB 10635063 14:05 AIR TEMP DINDITIONS EASON EIGHT ABOVE V ENTS 4:06	-6 WATER	UTM CREW ICE CO	cm i	SOU 5488	th BC	6207761 TE none

В	C HYD	RO PEA	CE RIVE	R TEMP	ERATU	RE MON	ITORING -	DOWNL	OAD II	NFO	RMA	ΓΙΟΝ F	ORM
SITEID		pcnUP1	LOCAT				N Forebay		BANK				north
LOGGER T	YPE	Tic	dbit	LOGGER	SERIAL		10635067		UTM		562	2710	6204068
DOWNLOA	D DATE	22	Mar	2019 DO	_		11:4	4	CREW		002		DC
TEST RECO			YSI		RTEMP	1.0	AIR TEMP	8.0	ICECO	NDIT	TIONS	W. s	side of boom
						OGGER CC			102 00	11011	10110		
WATER D	FPTH	100	cm Di	SLODGED	no		EASON						
					110						TETLIC		
BURIED	no		UNCTION	IAL wet		COMM	EIGHT ABOVE	WATER		cm	IEIHE	RTYPE	log boom
						COMIN	ENI 5						
fail light indi	cated by	ut dow plo	ad OK										
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Rpl #10, SN													
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logger reple	iooa w ii		(0.12000	100)									
SITEID		pcnDN2	LOCAT	TION		PCI	N Tailrace		BANK				north
LOGGER T	YPE	Tic	dbit	LOGGER	SERIAL		10156317		UTM		562	2803	6204854
DOWNLOA	D DATE	11	Jan	2019 DO			12:3	6	CREW				TE
TEST RECO	ORDER 1	YPE	YSI	WATE	RTEMP	2.1	AIR TEMP	-12.0	ICECO	NDIT	TIONS	snow	& ice on shore
					L	OGGER CC	ONDITIONS						
WATER D	EPTH	150	cm DI	SLODGED	no	RI	EASON						
BURIED	no	F	UNCTION	IAL wet		IF DRY, H	IEIGHT ABOVE	WATER		cm	TETHE	RTYPE	rock
						COMM	ENTS						
dow nload C													
all stainless	steel ca	able ok											
RPL# 2													
SITEID			LOCAT				N Tailrace		BANK				north
LOGGER T	YPE	Tio	dbit	LOGGER		. #	10635061	2	UTM		562	2803	6204854
LOGGER T DOWNLOA	YPE D DATE	Tio 11	lbit Jan	LOGGER 2019 DO	WNLOA	.# DTIME	10635061 12:3		UTM CREW	AIDIT		ВС	6204854 TE
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LOGGER T DOWNLOA TEST RECO WATER D BURIED download C all stainless Anchored t Rpl #9, SN1	PEPTH no OK steel co same 063506	Tic 11 TYPE 150 F able ok rock as po	dbit Jan YSI cm DI CUNCTION	LOGGER 2019 DO WATE	WNLOAR TEMP Loan	# D TIME 2.1 OGGER CC RI IF DRY, H	AIR TEMP ONDITIONS EASON IEIGHT ABOVE	-12.0	UTM CREW ICE CO		TIONS	BC snow	6204854 TE & ice on shore
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SITEID	halfUP2	LOCATIO			lalfway River		BANK			north
LOGGER TYPE	Tic	dbit L	OGGER SERIAL		20030829		UTM	5955	569	6230541
DOWNLOAD DAT	E 3	Jan 20	019 DOWNLOA	DTIME	13:36	3	CREW		BC	TE
TEST RECORDER	TYPE	YSI	WATER TEMP	1.7	AIR TEMP	-12	ICE CON	DITIONS		none
			L	OGGER CO	ONDITIONS					
WATER DEPTH	200	cm DISL	ODGED no	R	EASON					
BURIED no	F	UNCTIONAL	w et	IF DRY, H	EIGHT ABOVE	WATER	cr	m TETHER	TYPE	spruce
				COMM	ENTS					
dow nload OK cable OK RPL# 33 SN20030	829									
SITEID	halfUP1	LOCATIO	N	u/s of H	lalfway River		BANK	sou	ıth	
LOGGER TYPE			OGGER SERIAL		20332123		UTM	5951		6230094
DOWNLOAD DAT			019 DOWNLOA		13:34	•	CREW	NTICKS	BC	
TEST RECORDER	ITPE	YSI	WATER TEMP	1.7 OGGER CO	AIR TEMP	-12	ICE CON	INS		none
WATER DEPTH	200	cm DISL			EASON					
BURIED no		UNCTIONAL			EIGHT ABOVE	WATER	cr	n TETHER	TYPE	spruce tree
				COMM	ENTS					
RITE ID										
		LOCATIO			Halfway River		BANK			north
LOGGER TYPE	Tic	dbit L	OGGER SERIAL	_ #	10669748		UTM	5981		6232169
LOGGER TYPE DOWNLOAD DAT	Tic E 3	dbit L Jan 20		.# ADTIME	10669748 13:56		UTM CREW		198 BC	6232169 TE
LOGGER TYPE DOWNLOAD DAT	Tic E 3	dbit L	OGGER SERIAL D19 DOWNLOA WATER TEMP	. # AD TIME 0.8	10669748	S -10	UTM			6232169
LOGGER TYPE DOWNLOAD DAT	Tic E 3	dbit L Jan 20	OGGER SERIAL O19 DOWNLOA WATER TEMP	.# OTIME 0.8 OGGER CO	10669748 13:56 AIR TEMP		UTM CREW ICE COND	DITIONS debris	BC.	6232169 TE
LOGGER TYPE DOWNLOAD DATI FEST RECORDER	Tic E 3 TYPE	dbit L Jan 20 YSI	OGGER SERIAL O19 DOWNLOA WATER TEMP L ODGED	.# AD TIME 0.8 OGGER CO yes R IF DRY, H	10669748 13:56 AIR TEMP DNDITIONS EASON HEIGHT ABOVE	-10	UTM CREW ICE COND	DITIONS	BC.	6232169 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tic E 3 TYPE	dbit L Jan 20 YSI cm DISL	OGGER SERIAL O19 DOWNLOA WATER TEMP L ODGED	.# AD TIME 0.8 OGGER CO yes R	10669748 13:56 AIR TEMP DNDITIONS EASON HEIGHT ABOVE	-10	UTM CREW ICE COND	DITIONS debris	BC.	6232169 TE none
	Tice 3 TYPE 150 F shore	dbit L Jan 20 YSI cm DISL	OGGER SERIAL O19 DOWNLOA WATER TEMP L ODGED	.# AD TIME 0.8 OGGER CO yes R IF DRY, H	10669748 13:56 AIR TEMP DNDITIONS EASON HEIGHT ABOVE	-10	UTM CREW ICE COND	DITIONS debris	BC.	6232169 TE none
COGGER TYPE DOWNLOAD DATI TEST RECORDER WATER DEPTH BURIED no download ok partially sw ung to RPL#15, 10669748	Tice 3 TYPE 150 F shore	dbit L Jan 20 YSI cm DISL	OGGER SERIAL 019 DOWNLOA WATER TEMP L ODGED w et	DEFINITION OF THE COMM	10669748 13:56 AIR TEMP DNDITIONS EASON HEIGHT ABOVE	-10	UTM CREW ICE COND	DITIONS debris	BC.	6232169 TE none
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DOWNLOAD DATI TEST RECORDER WATER DEPTH BURIED no download ok partially sw ung to RPL#15, 10669748 SITE ID h LOGGER TYPE DOWNLOAD DATI	Tic E 3 TYPE 150 150 F shore B alf DN2_BL Tic E 3	J LOCATION Jan 20 YSI Cm DISL FUNCTIONAL	OGGER SERIAL 019 DOWNLOA WATER TEMP LODGED w et N.OGGER SERIAL 019 DOWNLOA WATER TEMP	DOTIME O.8 OGGER CC yes R IF DRY, H COMM d/s of H AD TIME O.8	AIR TEMP ONDITIONS EASON HEIGHT ABOVE ENTS Half w ay River 10156314 13:55 AIR TEMP	-10	CREW ICE CONE	debris m TETHER	BC TYPE	6232169 TE none willow north 6263144
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			LNAIUN		IITORING - D	JOW NL	OADI	NEO	RMAII	UN FU	JRIVI
IIIO	bUP2 LO	CATION			Moberly River		BANK				north
OGGER TYPE	Tidbit	LOGGE	R SERIAL #		10669754		UTM		62750	01	6232563
OWNLOAD DATE	19 M	ar 2019 D	OWNLOAD	TIME	12:21		CREW			ВС	TE
EST RECORDER TYP	PE Y	SI WATE	RTEMP	1.2	AIR TEMP	6.0	ICE CO	NDITI	IONS		none
			LOC	GGER CO	ONDITIONS						
WATER DEPTH	150 cm	DISLODGED	no	R	EASON						
BURIED V	es FUNCT	TONAL wet	1	F DRY, H	HEIGHT ABOVE	WATER		cm 7	TETHER T	TYPE	birch
				COMM							5 0.1.
RPL#16, SN 10669754 low nload ok											
ITEID mol	bUP1 LO	CATION		u/s of	Moberly River		BANK		sout	h	
OGGER TYPE	Tidbit		R SERIAL #		10887852		UTM		62715		6232349
OWNLOAD DATE			OWNLOAD		12:39)	CREW		02110	BC	
EST RECORDER TYP			RTEMP	1.2	AIR TEMP	6.0	ICECO	NDITI	IONS		none
					ONDITIONS						
WATER DEPTH		DISLODGED		yes R		14/4 ===	ice			D/55	
BURIED no	FUNCT	TIONAL wet		F DRY, F	HEIGHT ABOVE	WATER		cm	TETHER T	IYPE	alder
OGGER TYPE	Tidbit		R SERIAL #		Moberly River 10676146		BANK UTM		soutl	76	6229287
OGGER TYPE OWNLOAD DATE	Tidbit 19 M	LOGGEF ar 2019 DO	OWNLOAD	TIME	10676146 12:59		UTM CREW	NDIT	63077		TE
OGGER TYPE	Tidbit 19 M	LOGGEF ar 2019 DO	OWNLOAD ER TEMP	TIME 1.2	10676146 12:59 AIR TEMP	6.0	UTM	DNDIT	63077	76	
OGGER TYPE	Tidbit 19 M	LOGGEF ar 2019 DO	OWNLOAD ER TEMP LOC	TIME 1.2 GGER CO	10676146 12:59		UTM CREW	NDITI	63077	76	TE
OGGER TYPE OWNLOAD DATE EST RECORDER TYP WATER DEPTH	Tidbit 19 M PE Y	LOGGER lar 2019 DO SI WATE	OWNLOAD ER TEMP LOC	TIME 1.2 GGER CO	10676146 12:59 AIR TEMP DNDITIONS REASON HEIGHT ABOVE	6.0	UTM CREW ICE CO		63077	76 BC	TE
OGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no RPL#17, S/N10676146 ow nload OK artially sw ung to shou	Tidbit 19 M PE Y 30 cm FUNCT	LOGGEI lar 2019 DO SI WATE	OWNLOAD ER TEMP LOC	TIME 1.2 GGER CO yes R F DRY, H	10676146 12:59 AIR TEMP DNDITIONS REASON HEIGHT ABOVE	6.0	UTM CREW ICE CO		63077	76 BC	TE none
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OGGER TYPE OWNLOAD DATE EST RECORDER TYPE WATER DEPTH BURIED no PL#17, S/N10676146 ownload OK artially sw ung to shoo eplaced cable w ith ch	Tidbit 19 M PE Y 30 cm FUNCT	LOGGEI AT 2019 DO SI WATE DISLODGED TIONAL W et	OWNLOAD ER TEMP LOC	TIME 1.2 GGER CC yyes R F DRY, F COMM	10676146 12:59 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS Moberly River 10676147	6.0	UTM CREW ICE CO		63077	TYPE	TE none alder
OGGER TYPE OWNLOAD DATE EST RECORDER TYPE WATER DEPTH BURIED no PL#17, S/N10676146 ow nload OK artially sw ung to shoo eplaced cable w ith ch	Tidbit 19 M PE Y 30 cm FUNCT re but w et hain DN1_BU LO Tidbit 19 M	LOGGEI AT 2019 DO SI WATE DISLODGED TIONAL W et CATION LOGGEI AT 2019 DO	CONNLOAD R TEMP LOC I R SERIAL # DWNLOAD	TIME 1.2 GGER CC yyes R F DRY, F COMM	Moberly River	6.0 WATER	UTM CREW ICE CO ice	cm	soutl 63087	76 BC	TE none alder
OGGER TYPE OWNLOAD DATE EST RECORDER TYPE WATER DEPTH BURIED no PL#17, S/N10676146 ow nload OK artially sw ung to shoo eplaced cable w ith ch	Tidbit 19 M PE Y 30 cm FUNCT re but w et hain DN1_BU LO Tidbit 19 M	LOGGEI AT 2019 DO SI WATE DISLODGED TIONAL W et CATION LOGGEI AT 2019 DO	R SERIAL # OWNLOAD R TEMP	TIME 1.2 GGER CC yyes R F DRY, F COMM	Moberly River 10676147 13:10 AIR TEMP	6.0	UTM CREW ICE CO ice	cm	63077 IONS TETHER south	TYPE	TE none alder
OGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no RPL#17, S/N10676146 TOWNLOAD OK TOWNLOAD CABLE TOWNLOAD DATE TEST RECORDER TYPE TOWNLOAD DATE TEST RECORDER TYPE	Tidbit 19 M PE Y 30 cm FUNCT re but w et nain ON1_BU LO Tidbit 19 M PE Y	CATION LOGGET ar 2019 DO SI WATE DISLODGED LOGGET ar 2019 DO SI WATE	R SERIAL # DWNLOAD R TEMP LOC	TIME 1.2 GGER CC yyes R F DRY, F COMM d/s of TIME 1.2	Moberly River 10676147 13:10 AIR TEMP DNDITIONS REASON HEIGHT ABOVE IENTS	6.0 WATER	CREW ICE CO	cm	63077 IONS TETHER south	TYPE	TE none alder
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B	CHYD	RO PR	ACE	RIVER	TEMPE	-RATI	IRE M	ONITOR	ING - I	OWNI	OADI	NEC	RMAT	TON F	ORM
SITEID		pineUP2												. 1011	
				OCATIO				s of Pine			BANK				north
LOGGER T	YPE		Tidbit	L	OGGER	SERIAL	_ #	9	767573		UTM		641	653	6225304
DOWNLOA	D DATE	•	19 I	Mar 2	019 DO	WNLOA	D TIME		13:47	7	CREW			BC	TE
TEST RECO	ORDER '	ГҮРЕ	,	YSI	WATER	R TEMP	1.5	AIR	TEMP	6.0	ICE CO	ONDI	TIONS		none
						L	OGGER	CONDITI	ONS						
WATER D	FPTH	180) cr	m DISL	ODGED	no		REASO	N			Т			
BURIED	no			TIONAL			IE DD'	Y, HEIGHT		WATED		om	TETHE	D TVDE	
BURIED	110		FONC	TIONAL	wet			MMENTS	ABOVE	WATER		CIII	IEIIIE	THE	balsam pop
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Stainless st	teel cab	ie OK													
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Logger "ha	TUPIR	SN 976	/5/3 FE	spiaced v	/ ith RPL#	740 S/N	203321	29							
SITEID		pineUP		OCATIO				s of Pine			BANK			uth	
LOGGER T			Tidbit		OGGER				0669747		UTM		641	034	6225372
DOWNLOA					019 DO				13:52	_	CREW			ВС	TE
TEST RECO	ORDER	ГҮРЕ		YSI	WATER				TEMP	6.0	ICEC	ONDI	TIONS		none
						L	OGGER	CONDITI							
WATER D	DEPTH	80		m DISL			yes	REASO			ice				
BURIED	no		FUNC	TIONAL	w et			Y, HEIGHT	ABOVE	WATER		cm	TETHE	RTYPE	alder
							CO	MMENTS							
dow nload (
partially sw			ut w et												
Rpl # 14, Sl															
Stainless st	teel cab	le OK													
SITEID	pi	neDN1_	BU L (OCATIO	V		d	s of Pine	River		BANK		SO	uth	
SITE ID LOGGER T			BU L(N .OGGER	SERIAL			River 0893055		BANK UTM			362	6222823
LOGGER T	YPE D DATE		Tidbit 19 I	Mar 2			_#	10		7				362	6222823 TE
LOGGER T	YPE D DATE		Tidbit 19 I	L	. OGGER 019 DO	WNLOA R TEMP	. # AD TIME 1.4	10 AIR	0893055 14:17 TEMP	7 6.0	UTM		648	362	
LOGGER T DOWNLOA TEST RECO	YPE D DATE		Tidbit 19 I	Mar 2 YSI	OGGER 019 DO	WNLOA R TEMP	. # AD TIME 1.4	10	0893055 14:17 TEMP		UTM CREW		648	362	TE
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LOGGER T DOWNLOA TEST RECO	YPE D DATE	ГҮРЕ	Tidbit 19 I	Mar 2 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE
LOGGER T DOWNLOA TEST RECO	YPE DATE ORDER DEPTH	ГҮРЕ	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO	YPE DATE ORDER DEPTH	ГҮРЕ	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO	YPE DATE ORDER DEPTH	ГҮРЕ	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	DEPTH no	ГҮРЕ	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	YPE D DATE DRDER DEPTH NO	90	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED RPL# 25 download of	YPE D DATE DRDER DEPTH NO	90	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED RPL# 25 download of	YPE D DATE DRDER DEPTH NO	90	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED RPL# 25 download of	YPE D DATE DRDER DEPTH NO	90	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED RPL# 25 download of	YPE D DATE DRDER DEPTH NO	90	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO	WNLOA R TEMP L	.# AD TIME 1.4 OGGER	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648	362 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED RPL# 25 download of	DEPTH no	90	Tidbit 19 I	Mar 20 YSI	OGGER 019 DO WATER ODGED wet	WNLOA R TEMP L	AD TIME 1.4 OGGER IF DR	AIR CONDITI REASOI Y, HEIGHT	0893055 14:17 TEMP ONS N	6.0	UTM CREW	ONDI	648 TIONS TETHER	362 BC	TE none
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 dow nload o stainless st	PEPTH no	90 e ok	Tidbit 19 I	Mar 20 YSI m DISL CTIONAL	OGGER 019 DO WATER ODGED wet	WNLOAR TEMP	L# AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT WIMENTS	0893055 14:17 TEMP ONS N	6.0	UTM CREW ICE CO	ONDI	648 TIONS TETHER	BC BC	TE none
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 dow nload o stainless st	YPE D DATE DRDER DEPTH no ok deel cab	90 le ok	Tidbit 19 1 Cr FUNC	Mar 20 YSI m DISL CTIONAL	OGGER DO DO WATER ODGED Wet	WNLOAR TEMP L no	JE DE COL	AIR CONDITI REASOI Y, HEIGHT WIMENTS	0893055 14:17 TEMP ONS N	WATER	UTM CREW ICE CO	cm	648 TIONS TETHER	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 dow nload o stainless st	PEPTH no	90 e ok	Tidbit 19 1 FUNC	Mar 20 YSI m DISL CTIONAL	OGGER ODGED WATER ODGED Wet	WNLOAR TEMP L no	L# AD TIME AD TIME	AIR CONDITI REASOI Y, HEIGHT WIMENTS	893055 14:17 TEMP ONS N * ABOVE	WATER	UTM CREW ICE CO	cm	648 TETHER	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 dow nload o stainless st SITE ID LOGGER T DOWNLOA	PEPTH no	90 e ok	Tidbit 19 1 FUNC	Mar 20 YSI MDISL CTIONAL OCATIO L Mar 2	OGGER ODGED WATER ODGED Wet	SERIAL WNLOAR TEMP	L# AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT WIMENTS	893055 14:17 TEMP ONS N * ABOVE	6.0 WATER	UTM CREW ICE CO	cm	648 TETHER	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 dow nload o stainless st	PPE DRDER DR	90 e ok	Tidbit 19 1 FUNC	Mar 20 YSI MDISL CTIONAL OCATIO L Mar 2	NOGGER ODGED WATER NOGGER ODGER ODGER ODGER WATER	SERIAL WNLOAR TEMP	L# AD TIME 1.4 OGGER IF DR' COI	AIR AIR CONDITI REASOI Y, HEIGHT WIMENTS	893055 14:17 TEMP ONS N * ABOVE	6.0 WATER	UTM CREW ICE CO	cm	648 TETHER	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC	PPE DRDER DR	90 le ok pineDN TYPE	Tidbit 19 1 FUNC	Mar 20 YSI TIONAL OCATIO L Mar 20 YSI	OGGER ODGED NOCOGGER ODGED WATER ODGER ODGED WATER	WNLOAR TEMP L NO SERIAL WNLOAR TEMP L	d. # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT WIMENTS /s of Pine 10	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	648 TETHER	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC	PPE DRDER DR	90 le ok pineDN TYPE	Tidbit 19 1 FUNC	Mar 20 YSI TIONAL OCATIO L Mar 20 YSI Mar 20 YSI	OGGER ODGED NOCOGGER ODGED WATER ODGER ODGED WATER	WNLOAR TEMP L NO SERIAL WNLOAR TEMP L	da # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT WIMENTS //s of Pine 10 E AIR CONDITI REASOI	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	SOI 648	BC BC R TYPE	TE none alder
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LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC	PPE DRDER DR	90 le ok pineDN TYPE	Tidbit 19 1 FUNC	Mar 20 YSI TIONAL OCATIO L Mar 20 YSI Mar 20 YSI	OGGER ODGED NOCOGGER ODGED WATER ODGER ODGED WATER	WNLOAR TEMP L NO SERIAL WNLOAR TEMP L	da # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	SOI 648	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC	PPE DRDER DR	90 le ok pineDN TYPE	Tidbit 19 1 FUNC	Mar 20 YSI TIONAL OCATIO L Mar 20 YSI Mar 20 YSI	OGGER ODGED NOCOGGER ODGED WATER ODGER ODGED WATER	WNLOAR TEMP L NO SERIAL WNLOAR TEMP L	da # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	SOI 648	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC	YPE DRDER DEPTH no ok deel cab YPE DRDER DEPTH no	90 e ok pineDN rype 80	Tidbit 19 1 FUNC	Mar 20 YSI TIONAL OCATIO L Mar 20 YSI Mar 20 YSI	OGGER ODGED NOCOGGER ODGED WATER ODGER ODGED WATER	WNLOAR TEMP L NO SERIAL WNLOAR TEMP L	da # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	SOI 648	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D BURIED RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC WATER D BURIED	YPE DRDER DEPTH no ok deel cab DEPTH no ok deel cab DEPTH no DEPTH no	90 le ok pineDN TYPE 80	Tidbit 19 I FUNC	Mar 20 OCATIONAL Mar 20 YSI Mar 20 YSI Mar 20 YSI MIDISLE TIONAL	NOGGER O19 DO) WATER ODGED Wet NOGGER O19 DO) WATER ODGED WATER	SERIAL WILOAR TEMP L no	d. # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	SOI 648	BC BC R TYPE	TE none alder
LOGGER T DOWNLOA TEST RECC WATER D RPL# 25 download o stainless st SITE ID LOGGER T DOWNLOA TEST RECC WATER D BURIED	YPE DRDER DEPTH NO	90 le ok pineDN TYPE 80	Tidbit 19 I FUNC	Mar 20 OCATIONAL Mar 20 YSI Mar 20 YSI Mar 20 YSI MIDISLE TIONAL	NOGGER O19 DO) WATER ODGED Wet NOGGER O19 DO) WATER ODGED WATER	SERIAL WILOAR TEMP L no	d. # AD TIME 1.4 OGGER IF DR' COI	AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT AIR CONDITI REASOI Y, HEIGHT	River 14:17 TEMP ONS N 14:17 TEMP ONS N 14:17 TEMP 14:17 TEMP ONS N 14:17 TEMP ONS N 1	6.0 WATER	UTM CREW ICE CO	cm	SOI 648	BC BC R TYPE	TE none alder

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

Site ID	Serial #	Location	Date Deployed	Replace Date
gmsUP1	20332187	WAC Bennett Forebay	Mar 2019	2025
gmsUP2	10676160	WAC Bennett Forebay	Jan 2016	2022
gmsDN1	10635063	GMS Tailrace	Jan 2015	2021
gmsDN1BU	20332152	GMS Tailrace	July 2018	2024
gmsDN2	10669739	GMS Tailrace	Apr 2015	2021
gmsDN2BU	20332121	GMS Tailrace	July 2018	2024
pcnUP1	20332186	Peace Canyon Forebay	Mar 2019	2025
pcnDN2	10156317	Peace Canyon Tailrace	July 2014	2020
pcnDN2BU	10635061	Peace Canyon Tailrace	Apr 2015	2021
HalfUP1	20332123	Halfway Confluence - upstream	July 2018	2024
HalfUP2	20030829	Halfway Confluence - upstream	Oct 2017	2023
HalfDN2	10669748	Halfway Confluence - downstream	Apr 2015	2021
HalfDN2BU	10156314	Halfway Confluence - downstream	Jul 2013	2018
MobUP1	10887852	Moberly Confluence - upstream	Oct 2015	2021
MobUP2	10669754	Moberly Confluence - upstream	July 2016	2022
MobDN1	10676146	Moberly Confluence - downstream	Jan 2016	2021
MobDN1BU	10676147	Moberly Confluence - downstream	Jan 2016	2021
PineUP1	10669747	Pine Confluence - upstream	Apr 2015	2021
PineUP2	20332129	Pine Confluence - upstream	Mar 2019	2025
PineDN1	20332124	Pine Confluence - downstream	Mar 2019	2025
PineDN1BU	10893055	Pine Confluence - downstream	Jan 2017	2023
PineMS1	10893069	Pine Mainstem - upstream of Peace	Jul 2016	2022
PineMS2	20097150	Pine Mainstem - upstream of Peace	Apr 2018	2024
BeatMS1	20322122	Beatton Mainstem - upstream of Peace	Apr 2018	2024
BeatMS2	20030828	Beatton Mainstem - upstream of Peace	Nov 2016	2022
PouceUP1	10635062	Pouce Coupe confluence - upstream	April 2018	2024
PouceUP2	10893068	Pouce Coupe confluence - upstream	Apr 2016	2022