

Peace River Water Use Plan

Peace River Baseline TDGP/Temperature

GMSWORKS-2

Year 12 Monitoring Program - Annual Report

January 2020 to December 2020

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PEACE RIVER WATER USE PLAN IMPLEMENTATION PROGRAM

PEACE RIVER BASELINE TDGP/TEMPERATURE GMSWORKS-2 YEAR 12 MONITORING PROGRAM - ANNUAL REPORT January 2020 to December 2020

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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).

An objective of this program (GMSWORKS-2) was 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. Beginning in September 2008, 21 Tidbit v2 Model #UTBI-001 temperature sensor/logger units (Onset Corp., Bourne, MA) have been maintained at 18 locations.

During Year 8 (2016), six temperature loggers were added at 3 additional locations of specific interest to BC Hydro's Site C project, extending the project area downstream to the mouth of the Pouce Coupe River in Alberta. The additional sites were maintained by the GMSWORKS-2 program through a cofunding arrangement with the Site C project.

In 2020 (Year 12), responsibility for all monitoring sites within and downstream of the proposed Site C inundation area reverted from the Peace WUP to the Site C project. These included the additional Site C stations plus all original stations located downstream of the Peace Canyon Dam tailrace. The GMSWORK-2 program retained responsibility for monitoring stations in the WAC Bennett and Peace Canyon dam forebays and tailraces only.

This annual summary report describes data collection activities for downstream stations up until the time of their transfer to the Site C project. For upstream stations where a full 12 months of hourly water temperature data was recovered by the GMSWORK-2 program, quarterly data collection activities are described and 2020 results are discussed.

Six stations associated with the WAC Bennett and Peace Canyon dams were monitored by the GMSWORKS-2 program for the entire Year 12. These included 2 stations in the Bennett Dam forebay (gmsUP1 – 1 m depth and gmsUP2 – 10 m depth), 2 stations in the Bennett Dam tailrace (gmsDN1 – south bank and gmsDN2 – north bank), one station in the Peace Canyon Dam forebay (pcnUP1), and one station in the Peace Canyon Dam tailrace (pcnDN2).

Continuous hourly temperature data for Year 12 was recovered from all stations except the Bennett Dam tailrace south bank (gmsDN1), where data from January 1 to February 23 was lost due to a severed tether cable.

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.

In addition to the collection of baseline water temperature data, the GMSWORK-2 program includes the maintenance of TDGP meters in a field-ready state for immediate deployment in the event of a spill at either Bennett or Peace Canyon dams. Early in 2020, the six aging TDGP meters attached to the program were declared obsolete and too unreliable for field deployment. BC Hydro procured rental units for the monitoring of a planned spill in July and August 2020. Results of 2020 spill monitoring have been reported under separate cover through the GSMMON-11 program.

TABLE OF CONTENTS

EXECUTIVI	E SUMMARYiii
TABLE OF	CONTENTSiv
1.0 IN	FRODUCTION1
2.0 ME	THODS1
2.1	Temperature Monitoring
2.1.1	Year 12 Site Logistics4
2.2	Total Dissolved Gas Pressure (TDGP)4
3.0 RE	SULTS AND DISCUSSION5
3.1	Temperature Monitoring5
3.1.1	WAC Bennett Dam Forebay and Tailrace
3.1.2	Peace Canyon Dam Forebay and Tailrace
3.1.3	Halfway River Confluence7
3.1.4	Moberly River Confluence8
3.1.5	Pine River Confluence
4.0 RE	COMMENDATIONS9
REFERENC	ES14
I IOT OF I	
LIST OF I	FIGURES
Figure 1. Figure 2.	Location of temperature loggers deployed along the Peace River (1:550,000)
Figure 3.	Comparison of daily mean water temperature at WAC Bennett Dam forebay surface (gmsUP1), and WAC Bennett Dam tailrace (gmsDN1 and gmsDN2) during Year 12, January 01, 2020 to December 31, 2020.
Figure 4.	Comparison of daily mean water temperature at Peace Canyon forebay surface (pcnUP1), Peace Canyon tailrace (pcnDN2), and WAC Bennett Dam tailrace (gmsDN-MEAN) during Year 12, January 01, 2020 to December 31, 2020
Figure 5.	

LIST OF APPENDICES

Appendix I.	Temperature monitoring station location information for Year 12, January 01,	
	2020 to December 31, 2020.	15
Appendix II.	Reference temperature values and corresponding logger fix values recorded	
• •	during download events in Year 12, January 01, 2020 to December 31, 2020	16
Appendix III.	Year 12 download information forms, January 01, 2020 to December 31, 2020	18
Appendix IV.	Summary of temperature logger deployment dates and anticipated replacement	
• •	dates	35

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 PSP thresholds.

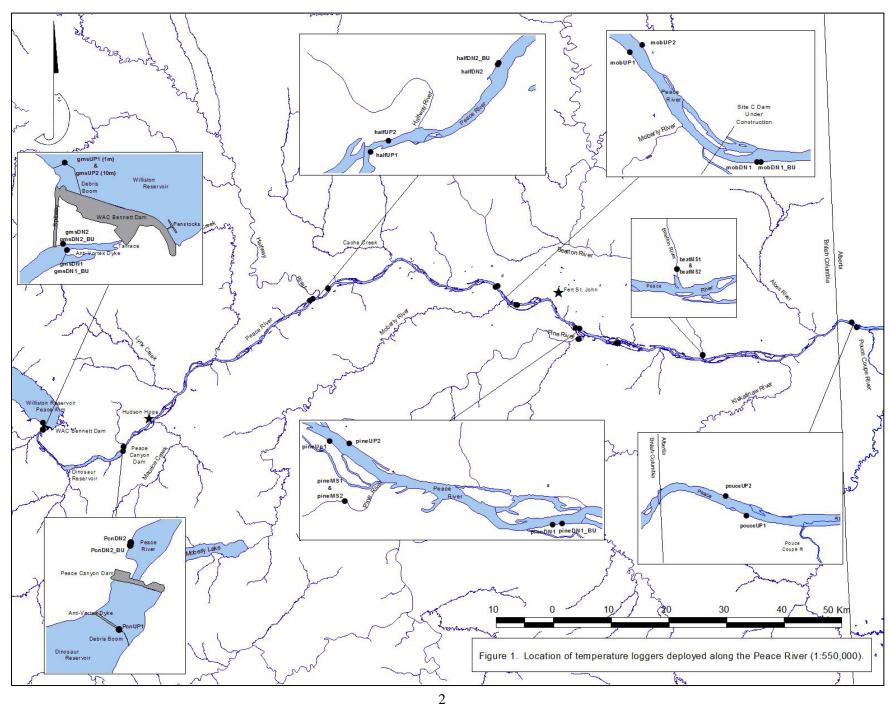
This report summarizes water temperature data collection activities completed during Year 12 of the monitoring program (2020).

2.0 METHODS

Temperature data presented in this summary report were recorded between January 01, 2020 and December 31, 2020.

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 12. A summary of temperature monitoring station location information as of the end of Year 12 appears in Appendix I. A description of site configuration changes prior to Year 3 can be found in DES 2013.

During Year 8 (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). In Years 8 through 12, these additional sites were maintained and downloaded by the Peace WUP monitoring program (GMSWORKS-2), through a co-funding arrangement with the Site C project, and results were reported in a separate summary report submitted to the Site C project. For information purposes, monitoring site details for the 6 additional Site C loggers appear in Figure 1 and Appendices I, II and III.

During the current year (Year 12), responsibility for all monitoring sites within and downstream of the proposed Site C inundation area reverted from the Peace WUP to the Site C project. These included the additional Site C stations plus all original stations located downstream of the Peace Canyon Dam tailrace (i.e., those associated with the Pine, Moberly, and Halfway river confluences). In June 2020, maintenance and downloading of these stations was turned over to Site C contractor Golder Associates, and the GMSWORK-2 program retained responsibility for stations in the GMS and PCN forebays and tailraces only. As a result, continuous Year 12 data sets for stations downstream of the Peace Canyon Dam tailrace do not appear in this summary report.

Temperature loggers were programmed to record water temperature (°C) at 1 hour intervals throughout Year 12. 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 2020 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).

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 12 Site Logistics

Occasional stranding of loggers above the waterline during Year 12 was largely associated with ice flows originating from the break-up of the Halfway and Pine rivers and the accumulation of debris on tether cables during tributary freshet. To partially alleviate this issue, the remaining stainless steel cable tethers of loggers immediately downstream of these tributaries was replaced with 3.5 mm steel chain in 2020.

2.2 Total Dissolved Gas Pressure (TDGP)

The six Model TBO-DL6(F) TDGP meters (Common Sensing Inc., Clark Fork, ID) dedicated to the Peace monitoring program were stored at the office of Diversified Environmental Services (DES) in a field-ready state in Years 1 through 11. In April 2020 (Year 12) these meters were declared unreliable and

obsolete due to discontinuation of calibration support for the original manufacturer and the dependence of the field communications software on an obsolete operating system (Windows 98).

As a replacement, Point Four Systems Inc. Model PT4 TGP and HydroLab Model MS5 TGP meters were rented by BC Hydro for the duration of a July/August 2020 spill at GMS and PCN (DES 2021).

3.0 RESULTS AND DISCUSSION

3.1 Temperature Monitoring

Reference temperatures recorded during download events are presented in Appendix II along with corresponding logger temperatures and indicated error values. None of the loggers in use in 2020 exhibited a correctable zero error greater than 0.3°C (mean error 0.12°C; Appendix II).

Several loggers were replaced in Year 12, 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 2021.

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 III.

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 devices were retired and replaced with new units during the November 18 download. Seamless water temperature data was recovered from both stations throughout Year 12 (Fig. 2). Although seasonal thermal stratification of Williston Reservoir is evident, the relatively small temperature differential between the 2 station depths suggests the primary thermocline lies deeper than 10 m. Maximum temperature differentials up to 7.2°C were recorded on July 31 during a period of high ambient air temperatures and rapid surface warming. Temperature profiles recorded further up the Peace Reach during unrelated work in 2017 and 2018 found the primary seasonal thermocline to be deeper than 20 m (B. Culling, pers. obs.).

The GMS tailrace monitoring sites are located on opposite banks, approximately 700 m downstream of the turbine outflow manifolds. Logger gmsDN1 records the temperature of water flowing from the south tailrace manifold, which originates from the shallowest penstock depths. 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 cable tethering the 2 south manifold loggers (gmsDN1 and gmsDN1BU) was found pulled to shore and cut during the February 2020 download resulting in the loss of 2020 data from January 1 to February 23. Continuous data for the remainder of the year was recovered for gmsDN1 and its backup, with the exception several partial days in April and May when the loggers appear to have been exposed due to low turbine outflow coupled with very low levels in Dinosaur Reservoir. Seamless data for the entire year was recovered from the north bank loggers (gmsDN2 and gmsDN2BU).

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 (Fig. 3), which originates closer to the surface of Williston Reservoir. Temperatures recorded at gmsUP1 (forebay surface) exhibit far greater annual variation than tailrace values (Fig. 3).

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 and records water temperature at 1 m depth. This station recorded seamless data throughout Year 12.

The Peace Canyon Dam tailrace loggers (pcnDN2 and pcnDN2BU) are located on the left downstream bank of the Peace River approximately 200 m downstream of the turbine outflow manifold. The primary and back-up loggers are installed in separate steel capsules on separate tethers anchored to the same bedrock slab. PCN tailrace logger pcnDN2 was lost prior to the February 2020 download due to a corroded-off capsule end cap, resulting in the loss of 2020 temperature data between Jan 1 and February 23. However, its back-up unit pcnDN2BU recorded continuous data throughout 2020.

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), with an annual mean differential in hourly readings of 0.5°C. Differential is lowest in fall through winter when turbine discharge, and thus, reservoir exchange rate, are typically

high. Conversely, temperature differentials across Dinosaur Reservoir were wider in May through July when turbine discharge and reservoir exchange rate are typically lower.

Figure 4 also illustrates some short-term thermal stratification of the Peace Canyon forebay associated with surface warming during periods of high ambient air temperature. A maximum differential between PCN forebay surface temperature and PCN turbine outflow occurred on June 20, one day after June air temperatures peaked at 26°C.

Figures 5 compares daily mean temperature of water entering Dinosaur Reservoir (Bennett Dam tailrace gmsDN2) during 2020 with the average of daily mean water temperature for the past 11 years (2009-2019). Water temperatures recorded in the WAC Bennett Dam tailrace in 2020 show minor deviations from the 11-year average. Most notable was a 0.5°C decrease in water temperature during the winter (Jan-Mar) of 2020. 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 penstock intake depths intervals.

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 (halfUP1 and halfUP2), while both Halfway downstream loggers (halfDN2 and halfDN2BU) were located on the left downstream bank within the influence of Halfway River inputs.

Both Halfway upstream loggers collected seamless temperature data between January 1 and June 3, when the stations were handed off to Site C contractors. During the February 28 download, the primary Halfway downstream logger (halfDN2) was found retrieved by persons unknown and left in shallow water near its coiled tether cable. During the June 3 download the same logger was found swung into shallow water by ice/debris from the Halfway River. These events resulted in periodic exposure of the logger between January 1 and February 28 and again between April 24 and June 6. During the June 6 download, the stainless cable tether was replace with steel chain, which has proven be to more resistant to passing debris.

The Halfway downstream back-up logger (halfDN2BU) was found partially dislodged by passing Halfway River ice/debris but recorded seamless temperature data between January 1 and June 3, when the stations were handed off to Site C contractors.

3.1.4 Moberly River Confluence

Peace River water temperature was monitored at points approximately 2.6 km upstream and 2.5 km downstream of the Moberly River confluence. Upstream stations were maintained on opposing banks (mobUP1 and mobUP2) and Moberly downstream logger and downstream back-up logger were both located on the south bank of the Peace River, within the influence of outfall from the Moberly River.

During the February 27 download, the tether cable of the mobUP2 logger was found cut and coiled up on the shore by persons unknown. Data was successfully recovered from the redundant mobUP1 logger located on the opposing bank of the river. Data was also successfully recovered from both Moberly downstream loggers (mobDN2 and mobDN2BU) on February 27, 2020. No further downloads could be completed for the Moberly stations in 2020 under the GMSWORKS-2 program due to boat access restrictions associated with Site C boom installation.

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 12, upstream stations were maintained on opposing banks (and both downstream loggers (pineDN1 and pineDN1BU) were located on the south river bank, within the influence of inputs from the Pine River.

The Pine upstream loggers (pineUP1 and pineUP2) both recorded seamless temperature data between January 1 and June 2, when the stations were handed off to Site C contractors.

The tether cable of the primary Pine downstream logger (pineDN1) was found severed during the February 27 download session and could not be replaced until the June 2 download. As a result no data was recovered from this station between January 1 and June 3. The stainless steel tether cable was replaced with steel chain during logger replacement on June 2. The Pine downstream back-up

logger (pineDN2_BU) recorded seamless temperature data between January 1 and June 2, when both stations were handed off to Site C contractors.

4.0 RECOMMENDATIONS

During 2020, several loggers were believed to be lost due to human tampering or removal. The majority of these were in access-restricted areas with active Site C construction and reservoir clearing operations. Site C project crews should be instructed not to disturb or remove data recorders or their tethers.

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 should continue to be maintained.

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 2021 as per the table presented in Appendix IV.

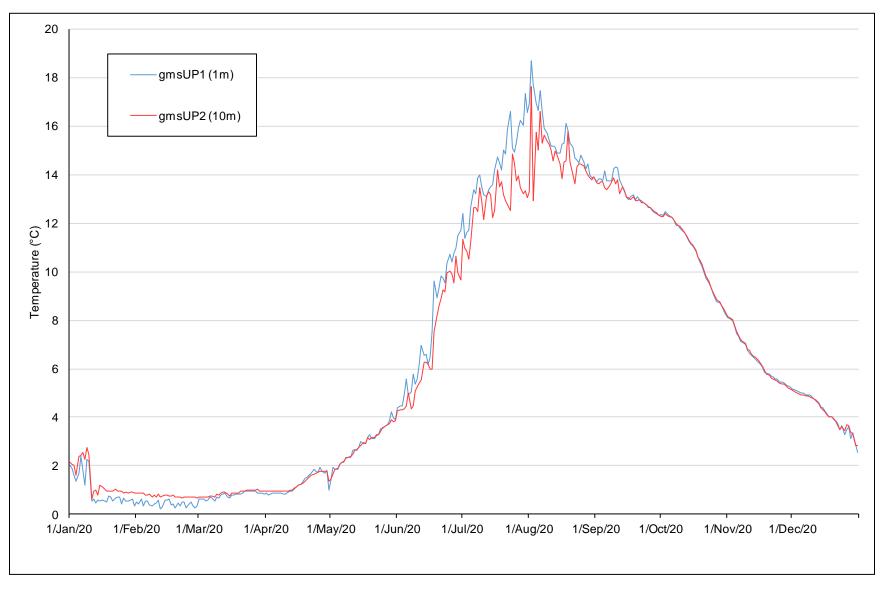


Figure 2. Comparison of daily mean water temperature at WAC Bennett Dam forebay station from 1 m depth (gmsUP1) and 10 m depth (gmsUP2) during Year 12, January 01, 2020 – December 31, 2020.

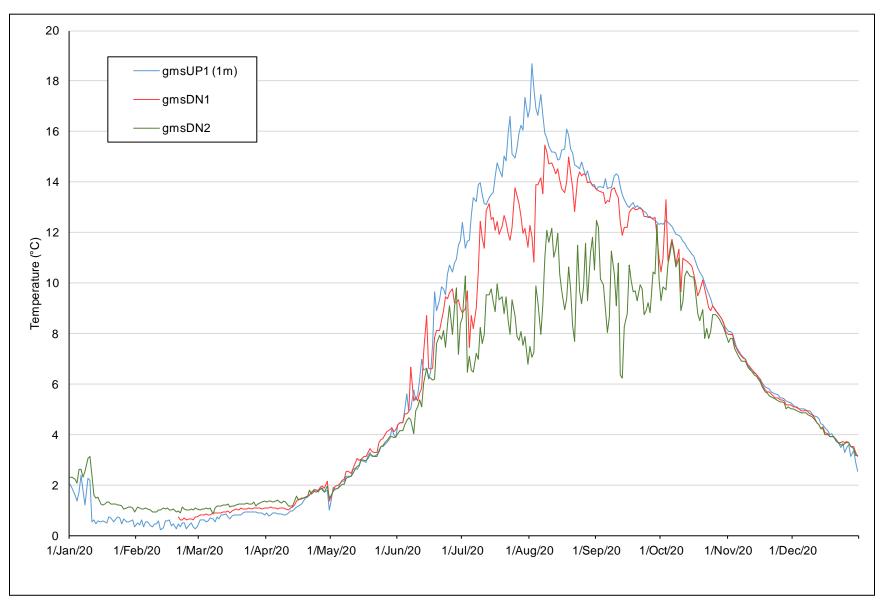


Figure 3. Comparison of daily mean water temperature at WAC Bennett Dam forebay surface (gmsUP1), and WAC Bennett Dam tailrace (gmsDN1 and gmsDN2) during Year 12, January 01, 2020 – December 31, 2020.

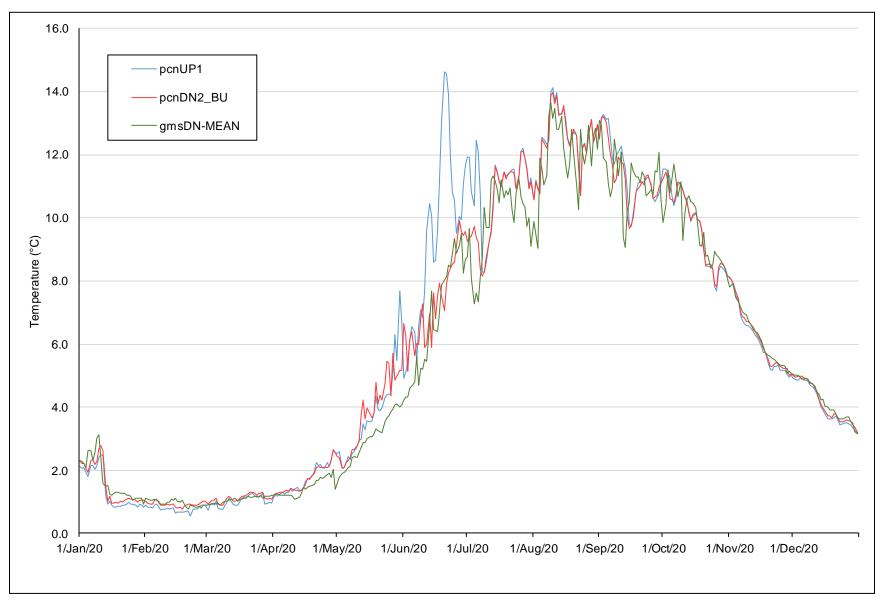


Figure 4. Comparison of daily mean water temperature at Peace Canyon forebay surface (pcnUP1), Peace Canyon tailrace (pcnDN2), and WAC Bennett Dam tailrace (gmsDN-MEAN) during Year 12, January 01, 2020 – December 31, 2020.

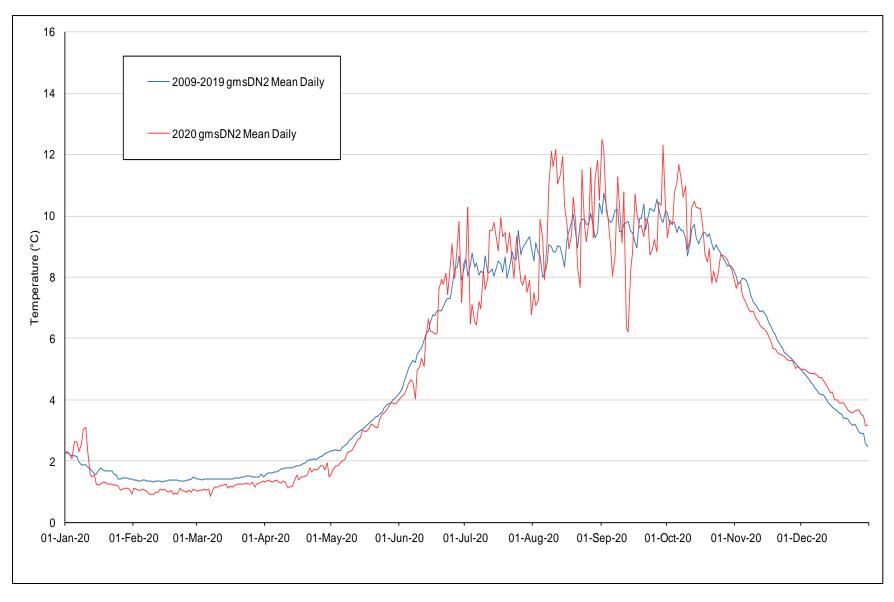


Figure 5. Comparison of Year 12 (2020) daily mean water temperature at WAC Bennett Dam tailrace north manifold (gmsDN2) with 2009 to 2019 daily mean water temperature (gmsDN2).

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.
- DES (Diversified Environmental Services). 2021. Peace River Water Use Plan Peace River Spill Total Dissolved Gas Pressure/Temperature Monitoring Program June/July 2021. Prepared for BC Hydro, 6911 Southpoint Drive, Burnaby, BC

Appendix I. Temperature monitoring station location information for Year 12, January 01, 2020 to December 31, 2020.

Site ID	Serial #	Location	UTM (Z East	one 10)	Comment
gmsUP1	20823636	WAC Bennett Forebay	548841	6209022	steel buoy; 1 m depth
gmsUP2	20823637	WAC Bennett Forebay	548841	6209022	steel buoy; 10 m depth
gmsDN1	20655136	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN1BU	10676155	GMS Tailrace	548881	6207761	southbank; deflection wier riprap
gmsDN2	10669739	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
gmsDN2BU	20332121	GMS Tailrace	548828	6207836	north bank; riprap below Tunnel portal #3
pcnUP1	20332186	Peace Canyon Forebay	562710	6204068	anti-vortex log boom; 1 m depth
pcnDN2	10156319	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
pcnDN2BU	10635061	Peace Canyon Tailrace	562803	6204854	north bank; rock slab
HalfUP1	20332123	Halfway Confluence - upstream	595181	6230117	south bank; spruce tree
HalfUP2	20030829	Halfway Confluence - upstream	595559	6230543	north bank; spruce tree
HalfDN2	10669748	Halfway Confluence - downstream	598310	6232377	north bank; balsam poplar
HalfDN2BU	10156314	Halfway Confluence - downstream	598287	6232344	north bank; balsam poplar
MobUP1	10887852	Moberly Confluence - upstream	627158	6232349	south bank; alder
MobUP2	20655180	Moberly Confluence - upstream	627501	6232563	north bank; birch tree
MobDN1	10676146	Moberly Confluence - downstream	630776	6229287	south bank; alder
MobDN1BU	10676147	Moberly Confluence - downstream	630875	6229303	south bank; alder
PineUP1	10669747	Pine Confluence - upstream	641032	6225367	south bank; alder
PineUP2	20655135	Pine Confluence - upstream	641655	6225305	north bank; balsam poplar stump
PineDN1	20655185	Pine Confluence - downstream	648074	6222792	south bank; alder
PineDN1BU	10893055	Pine Confluence - downstream	648371	6222823	south bank; alder
PineMS1	10893069	Pine Mainstem - upstream of Peace	641757	6223604	north bank; steel piling
PineMS2	10635067	Pine Mainstem - upstream of Peace	641757	6223604	north bank; steel piling
BeatMS1	20322122	Beatton Mainstem - upstream of Peace	663118	6221234	east bank; birch tree
BeatMS2	20030828	Beatton Mainstem - upstream of Peace	663118	6221234	east bank; birch tree
PouceUP1	20655184	Pouce Coupe confluence - upstream	*316876	6225223	south bank; birch; *UTM Zone 11
PouceUP2	10893068	Pouce Coupe confluence - upstream	*315884	6226162	south bank; birch; *UTM Zone 11

Appendix II. Reference temperature values and corresponding logger fix values recorded during download events in Year 12, January 01, 2020 to December 31, 2020.

Logger ID	Date	Fix Temp	Ref Temp	Error
gmsUP1	19-Feb-20	0.2	0.0	0.2
	6-Jul-20	13.2	13.0	0.2
	18-Nov-20	5.8	5.7	-0.1
gmsUP2	19-Feb-20	0.7	0.6	0.1
	6-Jul-20	12.6	12.5	0.1
	18-Nov-20	5.9	5.9	0.0
gmsDN1	19-Feb-20	0.7	0.6	0.1
	6-Jul-20	9.1	9.3	-0.2
	18-Nov-20	5.7	5.6	0.1
gmsDN1_BU	19-Feb-20	0.7	0.6	0.1
	6-Jul-20	9.1	9.3	-0.2
	18-Nov-20	5.8	5.6	0.2
gmsDN2	19-Feb-20	0.9	1.0	-0.1
· ·	6-Jul-20	6.7	6.6	0.1
	18-Nov-20	5.7	5.7	0.0
gmsDN2_BU	19-Feb-20	1.0	1.0	0.0
	6-Jul-20	6.8	6.6	0.2
	18-Nov-20	5.5	5.7	-0.2
pcnUP1	19-Feb-20	0.8	0.9	-0.1
	6-Jul-20	11.7	11.9	-0.2
	18-Nov-20	5.7	5.6	0.1
pcnDN2	19-Feb-20	0.8	0.7	0.1
	6-Jul-20	9.3	9.2	0.1
	18-Nov-20	5.7	5.5	0.2
pcnDN2_BU	19-Feb-20	0.9	0.7	0.2
	6-Jul-20	9.3	9.2	0.1
	18-Nov-20	5.7	5.5	0.2
halfUP1	28-Feb-20	1.0	0.9	0.1
	3-Jun-20	6.5	6.4	0.1
halfUP2	28-Feb-20	1.1	1.0	0.1
	3-Jun-20	6.8	6.6	0.2
halfDN2	28-Feb-20	0.9	0.9	0.0
	3-Jun-20	-	10.0	-
halfDN2_BU	28-Feb-20	1.0	0.9	0.1
	3-Jun-20	9.8	10.0	-0.2

Appendix II. Reference temperature values and corresponding logger fix values recorded during download events in Year 12, January 01, 2020 to December 31, 2020, cont.

Logger ID	Date	Logger Temp	Reference Temp	Error
mobUP1	27-Feb-20	1.0	1.0	0.0
mobUP2	27-Feb-20	-	1.0	-
mobDN1	27-Feb-20	1.0	1.0	0.0
mobDN1_BU	27-Feb-20	1.0	1.0	0.0
pineUP1	27-Feb-20	1.1	1.0	0.1
	2-Jun-20	11.3	11.5	-0.2
pineUP2	27-Feb-20	1.2	1.0	0.2
	2-Jun-20	10.5	10.8	-0.3
pineDN1	27-Feb-20	-	0.9	-
•	2-Jun-20	-	8.3	-
pineDN1_BU	27-Feb-20	0.9	0.9	0.0
· –	2-Jun-20	8.3	8.3	-0.1

Appendix III. Year 12 download information forms, January 01, 2020 to December 31, 2020.

DO 1					DEDATI			•				
			ERIVE	ER I EIVI	PERAIL		IITORING - D	OWNL	UAD II	NFOR	MATION F	ORIVI
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LOGGER TYP	E	Tidb	oit	LOGG	ER SERIAI	_ #	20332187		UTM		548841	6209022
DOWNLOAD I	DATE	19	Feb		DOWNLOA		13:28		CREW		ВС	
		_										
TEST RECOR	DER IY	PE	YSI	WA	TER TEMP		AIRTEMP	-3	ICECO	NDITIC	ONS	none
					L	OGGER C	ONDITIONS					
WATER DEP	тн	100	cm Di	SLODGE	D no	R	REASON					
								A/A TED		T		
BURIED	no	FU	JNCTION	IAL WE	H		HEIGHT ABOVE	WATER		cm II	THER TYPE	steel buoy
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Dow nload OK												
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Replac#43		J. (
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SITEID	an	nsUP2	LOCAT	TION		GN/	1S Forebay		BANK			
LOGGER TYP		Tidb			ER SERIAI		10676160		UTM		548841	6209022
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LOGGER TYP	E	Tidb	oit	LOGG	ER SERIAL	_ #	10669739		UTM		548828	6207836
LOGGER TYP DOWNLOAD I	E DATE	Tidb 19	oit Feb	LOGG 2020	DOWNLOA	L# ADTIME	10669739 12:05		UTM CREW		ВС	6207836 TE
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DOWNLOAD DA	ſΕ	19 Feb	2020 DO			14:3		CREW			BC TE	20 1010
TEST RECORDER		YSI		RTEMP	0.9	AIR TEMP	6.0	ICECC	ורווא		none	0
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logger lost - end	cap corre	oded off steel	capsule									
logger Replac#2	SN 1015	6317) replace	ed with Rep	olac#1 (SN	V1015631	9); delayed lau	ınch @ 16	:00				
stainless steel ca	ble OK											
	DNO	DII 1222										
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LOGGER TYPE		Tidbit	LOGGER		#	10635061		UTM		562803	62	north 204854
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LOGGER TYPE DOWNLOAD DA' TEST RECORDE WATER DEPTH	TE R TYPE	Tidbit 19 Feb YSI	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDE WATER DEPTH	TE R TYPE	Tidbit 19 Feb YSI	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDED WATER DEPTH BURIED no	ΓΕ R TYPE	Tidbit 19 Feb YSI	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDED WATER DEPTH BURIED no download OK	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION	LOGGER 2020 DO WATER SLODGED	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION	LOGGER 2020 DO WATER SLODGED AL w et	R TEM P LO	D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9	TE TYPE	Tidbit 19 Feb YSI 0 cm DIS FUNCTION s pcnDN2	LOGGER 2020 DO WATER SLODGED AL w et	R TEMP LO	# D TIME 0.7 DGGER CO R IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW ICE CO	ONDIT	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9	TE 150	Tidbit 19 Feb YSI 0 cm DIS FUNCTION s pcnDN2	LOGGER 2020 DO WATER SLODGED AL W et	R TEMP LO	# D TIME 0.7 DGGER CO RI IF DRY, H	AIR TEMP ONDITIONS EASON HEIGHT ABOVI	6.0	UTM CREW ICE CO	cm	FIONS	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE	TE 150 150 150 150 150 150 150 150 150 150	Tidbit 19 Feb YSI 0 cm DIS FUNCTION s pcnDN2	LOGGER 2020 DO WATER SLODGED AL W et LOGGER DO	SERIAL : WINLOAD	# D TIME 0.7 DGGER CO RI IF DRY, H COMM	AIR TEMP	6.0	UTM CREW ICE CO	cm	TETHER TYP	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2	LOGGER 2020 DO WATER SLODGED AL W et LOGGER DO WATER	SERIAL : WINLOAD	# D TIME 0.7 DGGER CCOMM F DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS	6.0	UTM CREW ICE CO	cm	TETHER TYP	62 BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2 LOCAT	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CCO RI IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CC R IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON EIGHT ABOVI ENTS	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e
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LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2 LOCAT	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CC R IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON EIGHT ABOVI ENTS	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2 LOCAT	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CC R IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON EIGHT ABOVI ENTS	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2 LOCAT	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CC R IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON EIGHT ABOVI ENTS	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2 LOCAT	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CC R IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON EIGHT ABOVI ENTS	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e
LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH BURIED no download OK stainless steel ca Anchored to sam Replac#9 SITE ID LOGGER TYPE DOWNLOAD DA' TEST RECORDER WATER DEPTH	the Stype 150 she ock as	Tidbit 19 Feb YSI 0 cm DIS FUNCTION S pcnDN2 LOCAT	LOGGER 2020 DO WATER SLODGED AL Wet LOGGER DO WATER	SERIAL : WINLOAD R TEMP	# D TIME 0.7 DGGER CC R IF DRY, H COMM	AIR TEMP AIR TEMP AIR TEMP AIR TEMP DIDITIONS EASON EIGHT ABOVI ENTS	6.0 E WATER	UTM CREW ICE CO	cm	TETHER TYP	62BC TE none	204854 e

В	C HYD	RO PE	ACE RIV	ER TEN	IPERATU	IRE MOI	NITORING -	DOWNL	OAD II	NFC	RMAT	TION F	ORM
SITEID	р	ouceUF	LOCA	TION	Peace	R mainste	em u/s of Pouce	Coupe R	BANK		sol	uth	
LOGGER T	YPE		Tidbit	LOGO	ER SERIAL	. #	20655134		UTM	11	316	876	6225223
DOWNLOA	D DATE	2	26 Feb	2020	DOWNLOA	DTIME			CREW				TE
TEST RECO			YSI		TER TEMP		AIR TEMP	4.0	ICECC	NDIT	TIONS		none
						- 1	CONDITIONS		10 = 0				
WATED	EDTU		0 mg F	NEL ODG					inn				
WATER D		-		ISLODGI		,	REASON		ice				
BURIED			FUNCTIO	NAL n	0		HEIGHT ABOV	EWATER		cm	TETHE	RTYPE	birch
						COM	MENTS						
			d - logger lo										
	•		20655134)	•		c#48 (SN	20655184)						
stainless st	teel cabl	e and s	teel capsule	replace	d								
SITEID		ouceUF					em u/s of Pouce		BANK				north
LOGGER T			Tidbit		ER SERIAL		10893068		UTM	11	315		6226162
DOWNLOA			26 Feb		DOWNLOA		15:5		CREW			ВС	TE
TEST RECO	ORDER 1	YPE	YSI	WA	TER TEMP	1.1	AIR TEMP	4.0	ICECC	NDI	IONS		none
WATER F	EDTIL	00		NOL ODG			CONDITIONS						
WATER D		30		ISLODGI		,	REASON		debris			D TO / DE	
BURIED	no		FUNCTIO	NAL w	et		HEIGHT ABOV	EWATER		cm	TETHE	KIYPE	birch
						COIVI	MENTS						
	المالية المالية		املم بما معمما										
dow nload (•	ing to s	hore by deb	oris, suii i	unctional								
	JN												
Replac#27	اطمم امما	- OV											
stainless st	leei cabi	e OK											
SITEID			LOCA	TION					DANK				
SITE ID	VDE		LOCA		CED CEDIAL	ш			BANK				
LOGGER T			LOCA		GER SERIAL				UTM				
LOGGER T	D DATE		LOCA	LOGG	DOWNLOA		A IR TEMP		UTM CREW	A I DI T	CIONS		
LOGGER T	D DATE		LOCA	LOGG	DOWNLOA TER TEMP	DTIME	AIR TEMP		UTM) NDIT	TIONS		
LOGGER T DOWNLOA TEST RECO	D DATE			WA	DOWNLOA TER TEMP	OGGER C	ONDITIONS		UTM CREW)NDIT	TIONS		
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON	F WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE			WA	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW		TETHER	RTYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WAT ER	UTM CREW			RTYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO	D DATE ORDER 1 DEPTH		cm D	WA DISLODGI	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW			R TYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED	D DATE ORDER 1 DEPTH		cm D FUNCTION	WA WA DISLODGI NAL W	DOWNLOA TER TEMP L	OGGER O	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW ICE CC			R TYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED	DEPTH no		cm D	WADISLODGINAL W	DOWNLOA TER TEMP L ED et	OGGER OF THE OF T	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW ICE CO			R TYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T	DEPTH no	TYPE	cm D FUNCTION	WADISLODGINAL W	DOWNLOA TER TEMP L ED et	OGGER OF THE OGGER	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW ICE CO			R TYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED	DEPTH no YPE D DATE	TYPE	cm D FUNCTION	WADISLODGINAL W	DOWNLOA TER TEMP L ED et	OGGER COMI	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW ICE CO	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA	DEPTH no YPE D DATE	TYPE	cm D FUNCTION	WADISLODGINAL W	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP	OGGER COMI	CONDITIONS REASON HEIGHT ABOV	E WATER	UTM CREW ICE CO	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGINAL W	DOWNLOA TER TEMP ED et GER SERIAL DOWNLOA TER TEMP	OGGER COMI	AIR TEMP	E WATER	UTM CREW ICE CO	cm	TETHE	RTYPE	
LOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOVE MENTS		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOV		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOV		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOV		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOV		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOV		UTM CREW ICE CO	cm	TETHE		
UOGGER T DOWNLOA TEST RECO WATER D BURIED SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH NO YPE DRDER 1	TYPE	cm D FUNCTION	WADISLODGI WADISLODGI	DOWNLOA TER TEMP L ED et GER SERIAL DOWNLOA TER TEMP L ED	OGGER COMI	AIR TEMP CONDITIONS REASON HEIGHT ABOV		UTM CREW ICE CO	cm	TETHE		

В	C HYD	RO PE	EACE RIV	ER TI	EMPERATI	JRE MON	NITORING - I	DOWNL	OAD I	NFC	RMA	TION F	ORM
SITEID		mobUP2	2 LOCA	TION		u/s of	Moberly River		BANK				north
LOGGER T	YPE		Tidbit	LO	GGER SERIA		10669754		UTM		62	7501	6232563
DOWNLOA	D DATE	: :	27 Feb		0 DOWNLO		-		CREW		0		TE
TEST REC			YSI		WATER TEMP		AIR TEMP	5.0	ICEC	בורוואר	SIAUL		none
TEOT REO	ORDER		101				ONDITIONS	0.0	ICLCC	ווטוונ	10143		Heric
MATER E	DEDTIL			101.05									
WATER	DEPTH		cm D)GED	,	REASON tamp						
BURIED			FUNCTION	NAL	no	IF DRY,	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	Birch
						COM	MENTS						
					apsule gone								
lost logger	Replac#	16 (SN	10669754)	replace	ed with Repla	c#49 (SN 2	20655180)						
SITEID		mobUP	1 LOCA	TION		u/s of	Moberly River		BANK		sc	uth	
LOGGER T	YPE		Tidbit	LO	GGER SERIA	L #	10887852		UTM		627	7158	6232349
DOWNLOA	D DATE	: 2	27 Feb	2020	0 DOWNLO	ADTIME	15:45	5	CREW			BC	TE
TEST REC	ORDER 1	YPE	YSI	٧	WATER TEMP	1.0	AIR TEMP	5.0	ICEC	DNDIT	TIONS		none
					L	OGGER C	ONDITIONS						
WATER I	DEPTH	80	cm D	ISLOD	DGED no		REASON						
BURIED	no		FUNCTION	NAL	w et	•	HEIGHT ABOVE	WATER		cm	TETHE	RTYPE	alder
						COM	MENTS						
dow nload	OK												
Replac#21													
stainless s	teel cabl	e OK											
SITEID	mo		BU LOCA	TION		d/s of	Moberly River		BANK		sc	outh	
LOGGER T	YPE		Tidbit		GGER SERIA		10676147		BANK UTM)875	6229303
LOGGER T	YPE AD DATE	. 2	Tidbit 27 Feb	LO	0 DOWNLO	L# ADTIME	10676147 15:01		UTM CREW		630)875	6229303 TE
LOGGER T	YPE AD DATE	. 2	Tidbit	LO	0 DOWNLO	L # AD TIME 1.0	10676147 15:01 AIR TEM P	1 4.0	UTM	ONDIT	630)875	
LOGGER T DOWNLOA TEST REC	YPE AD DATE ORDER 1	YPE	Tidbit 27 Feb YSI	2020 V	0 DOWNLOA WATER TEMF	L# AD TIME 1.0 LOGGER C	10676147 15:01 AIR TEMP ONDITIONS		UTM CREW	DNDIT	630)875	TE
LOGGER T DOWNLOA TEST RECO	YPE AD DATE ORDER 1	. 2	Tidbit 27 Feb YSI	2020 V	0 DOWNLOA WATER TEMF	AD TIME 1.0 LOGGER C	10676147 15:01 AIR TEMP ONDITIONS REASON	4.0	UTM CREW		630 FIONS)875 BC	TE
LOGGER T DOWNLOA TEST REC	YPE AD DATE ORDER 1	YPE	Tidbit 27 Feb YSI	2020 V	0 DOWNLOA WATER TEMF L	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875	TE
LOGGER T DOWNLOA TEST RECO	YPE AD DATE ORDER 1	YPE	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER 1 DEPTH	YPE	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOA TEST RECO	ORDER 1 DEPTH	YPE	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER 1 DEPTH	YPE	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOA TEST REC WATER E BURIED	OK	100	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOATEST RECE WATER D BURIED download G Replac#18	OK	100	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOATEST RECE WATER D BURIED download G Replac#18	OK	100	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOATEST RECE WATER D BURIED download G Replac#18	OK	100	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOATEST RECE WATER D BURIED download G Replac#18	OK	100	Tidbit 27 Feb YSI	2020 V	O DOWNLOA NATER TEMP L DGED no	AD TIME 1.0 OGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630 FIONS)875 BC	TE none
LOGGER T DOWNLOATEST RECE WATER D BURIED download G Replac#18	DEPTH no	100	Tidbit 27 Feb YSI 0 cm PUNCTION	LOC 2020 V DISLOD NAL	O DOWNLOA NATER TEMP L DGED no	L# AD TIME 1.0 LOGGER C IF DRY,	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW		630)875 BC	TE none
LOGGER T DOWNLOA TEST REC WATER D BURIED download (Replac#18 stainless s	DEPTH no	1000 1000 1000 1000 1000 1000 1000 100	Tidbit 27 Feb YSI 0 cm FUNCTION	LOO 2020 W DISLOD NAL	O DOWNLOA NATER TEMP L DGED no	L# AD TIME 1.0 LOGGER C IF DRY, COMM	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	4.0	UTM CREW ICE CO		630 TETHE	BC BC	TE none
LOGGER T DOWNLOA TEST REC WATER D BURIED download d Replac#18 stainless s	OK teel cable	1000 a constant of the constan	Tidbit 27 Feb YSI 0 cm D FUNCTION	LOC 2020 V V V V V V V V V V V V V V V V V	O DOWNLOW WATER TEMF L DGED no w et	L# AD TIME 1.0 LOGGER C IF DRY, COMM	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE MENTS Moberly River	4.0	UTM CREW ICE CO	cm	630 TETHE	D875 BC RTYPE	TE none alder
LOGGER T DOWNLOA TEST REC WATER I BURIED download d Replac#18 stainless s	DEPTH no OK teel cable	1000 1000 1000 1000 1000 1000 1000 100	Tidbit 27 Feb YSI 0 cm FUNCTION 11 LOCA Tidbit	LOO 2020 VOISLOD NAL	O DOWNLOA WATER TEMF L DGED NO w et	L# AD TIME 1.0 LOGGER C IF DRY, COMM	10676147 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE MENTS	4.0	UTM CREW ICE CO	cm	630 TETHE	D875 BC RTYPE	TE none alder
LOGGER T DOWNLOA TEST REC WATER D BURIED download d Replac#18 stainless s SITE ID LOGGER T DOWNLOA	DEPTH no OK teel cable	1000 1000 1000 1000 1000 1000 1000 100	Tidbit 27 Feb YSI 0 cm D FUNCTION 1 LOCA Tidbit 27 Feb	LOO 2020 VOISLOD NAL	O DOWNLOA WATER TEMF L DGED NO W et GGER SERIAL O DOWNLOA WATER TEMF	d/s of	Moberly River	4.0 WATER	UTM CREW ICE CO	cm	630 TETHE	D875 BC RTYPE	TE none alder
LOGGER T DOWNLOA TEST REC WATER D BURIED download d Replac#18 stainless s SITE ID LOGGER T DOWNLOA	OK TYPE AD DATE ORDER 1 OCK TYPE AD DATE ORDER 1	1000 1000 1000 1000 1000 1000 1000 100	Tidbit 27 Feb YSI 0 cm D FUNCTION 1 LOCA Tidbit 27 Feb YSI	LOU 2020 VOISLOD NAL	O DOWNLOA WATER TEMF L DGED NO Wet GGER SERIAL O DOWNLOA WATER TEMF	d/s of L# AD TIME d.OGGER C IF DRY, COMIN	Moberly River 10676146 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE MENTS	4.0 WATER	UTM CREW ICE CO	cm	630 TETHE	D875 BC RTYPE	TE none alder
LOGGER T DOWNLOA TEST REC WATER I BURIED download of Replac#18 Stainless s SITE ID LOGGER T DOWNLOA TEST REC	OK TYPE AD DATE ORDER 1 OCK TYPE AD DATE ORDER 1	1000 and the second sec	Tidbit 27 Feb YSI 0 cm D FUNCTION 1 LOCA Tidbit 27 Feb YSI	TION LOC 2020	O DOWNLOA WATER TEMF L DGED NO Wet GGER SERIAL O DOWNLOA WATER TEMF	d/s of L# AD TIME d 1.0 LOGGER C IF DRY, I COMIN	Moberly River 10676146 15:01 AIR TEMP ONDITIONS REASON HEIGHT ABOVE MENTS Moberly River 10676146 15:05 AIR TEMP ONDITIONS	4.0 WATER 9 4.0	UTM CREW ICE CO	cm	630 TETHE SC 630	D875 BC RTYPE	TE none alder
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LOGGER TYPE		LOCATIO				f Pine River		BANK		south	
LOOULN I IFE	Tidbi		LOGGER S	SERIAL 1		10669747		UTM		641032	6225367
DOWNLOAD DATE	27		2020 DOW			16:2	1	CREW	,		TE
TEST RECORDER TY		YSI	WATER		1.0	AIR TEMP	5.0		NDITION		none
TEST RESORDER TT	_	101	WATER			ONDITIONS	0.0	ICECO	NOTTION		TIONE
WATER DEPTH	100	cm DISL	ODGED	no		EASON					
BURIED no		NCTIONAL		-		EIGHT ABOVE	WATED		cm TET	HER TYPE	-1-1
BOIGED 110	1 01	TOTAL	L WCt		COMM		WATER		CIII ILI	TILK TITE	alder
dow nload OK Replac#14 Stainless steel cable to the stainless steel cable	neUP2 Tidbit 27 'PE		LOGGER S 2020 DOW WATER	VNLOAD TEMP LO	1.0 OGGER CO	f Pine River 20655135 16:3' AIR TEMP DNDITIONS EASON tamp IEGHT ABOVE	5.0 ered	BANK UTM CREW ICE CO	NDITION		north 6225305 TE none
Stainless steel cable		LOCATIO	ON .		d/s o	f Pine River		BANK		south	
LOGGER TYPE	Tidbi	it	LOGGER S	SERIAL #		20332124		UTM		648074	6222792
DOWNLOAD DATE	27		2020 DOW			-		CREW			TE
TEST RECORDER TY	PE	YSI	WATER		0.9	AIR TEMP	5.0	ICECO	NDITION	S	none
WATER DEPTH	_	cm DISL	ODGED	yes		ONDITIONS EASON					
BURIED		NCTIONAL			K	EASON				HER TYPE	unk
	1 01	to Hortza	_ 110		IF DRY H	IFIGHT ABOVE	WATER		cm IEI		unk
DUNIED					IF DRY, H	ENTS	WATER		cm IEI		unk alder
cable severed - logge Lost logger Replac#4		32124) to I	be replaced	d next se	COMM	ENTS		today	cm IEI		
cable severed - logge Lost logger Replac#4	1 (SN2033	,	·	d next se	COM M	o more spares		·			
cable severed - logge Lost logger Replac#4	1 (SN2033	LOCATIO	DN		ession - n	o more spares f Pine River		BANK		south	alder
cable severed - logge Lost logger Replac#4 SITE ID pine LOGGER TYPE	1 (SN2033	LOCATIO	·	SERIAL #	comm ession - n d/s o	o more spares	available	·		south 648371	
cable severed - logge Lost logger Replac#4 SITE ID pine LOGGER TYPE DOWNLOAD DATE	1 (SN2033 DN1_BU Tidbit 27	LOCATIO	ON LOGGER S	SERIAL #	comm ession - n d/s o	o more spares f Pine River 10893055	available	BANK UTM CREW		south 648371 BC	alder 6222823
cable severed - logge Lost logger Replac#4 SITE ID pine LOGGER TYPE DOWNLOAD DATE	1 (SN2033 DN1_BU Tidbit 27	LOCATIO it Feb 2	DN LOGGER S 2020 DOW	SERIAL # VNLOAD TEMP	comm ession - no d/s o d/s o TIME 0.9	o more spares f Pine River 10893055 16:50	available	BANK UTM CREW	(south 648371 BC	alder 6222823 TE
cable severed - logger Lost logger Replac#4 SITE ID pine LOGGER TYPE DOWNLOAD DATE TEST RECORDER TY WATER DEPTH	DN1_BU Tidbit 27	LOCATIO it Feb 2 YSI	DN LOGGER S 2020 DOW WATER	SERIAL # WNLOAD TEMP LO	d/s o d/s o TIME 0.9 OGGER CO	o more spares f Pine River 10893055 16:50 AIR TEMP DIDITIONS EASON	available	BANK UTM CREW ICE CO	(NDITION	south 648371 BC	alder 6222823 TE none
cable severed - logge Lost logger Replac#4 SITE ID pine LOGGER TYPE DOWNLOAD DATE TEST RECORDER TY	DN1_BU Tidbit 27	LOCATIO it Feb 2 YSI	DN LOGGER S 2020 DOW WATER	SERIAL # WNLOAD TEMP LO	d/s o d/s o TIME 0.9 OGGER CO	o more spares f Pine River 10893055 16:50 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	available	BANK UTM CREW ICE CO	(NDITION	south 648371 BC	alder 6222823 TE

	/ FEAL	E RIVE	K IEMP	EKATU	RE MON	ITORING - [JOW NL	OAD IN	IFORMA	TION F	ORM
SITE ID ha	lf UP2	LOCAT				lalfway River		BANK			north
LOGGER TYPE	Tidb		LOGGER	SERIAL		20030829		UTM	50	5559	6230543
DOWNLOAD DATE	28	Feb	2020 DC	_		13:08	3	CREW	- 00	BC	
TEST RECORDER TYP		YSI		RTEMP	1.0	AIR TEMP	4.0		NDITIONS		none
	_				OGGER CO			102 001	TENT TO NO		110110
WATER DEPTH	140	cm DIS	SLODGED	no		EASON					
BURIED no	-	INCTION		110		EIGHT ABOVE	WATER		cm TETHE	ED TV DE	
BORIED 110	FU	DIACTION	AL Wel		COMM		WATER		CIII TETHI	LK IIIFE	spruce
					00	0					
dow nload OK											
Replac#33											
stainless steel cable C	Ж										
SITE ID hal	lfUP1	LOCAT	ION		II/s of L	lalfway River		BANK	6.	outh	
LOGGER TYPE	Tidb		LOGGER	SERIAL		26332123		UTM		5181	6230117
DOWNLOAD DATE	28	Feb	2020 DC		••	13:19)	CREW	00	BC	
TEST RECORDER TYP		YSI		RTEMP	0.9	AIR TEMP	4.0		NDITIONS		none
				L	OGGER CC	NDITIONS					
WATER DEPTH	200		SLODGED	no		EASON					
BURIED no	FU	INCTION	AL wet			EIGHT ABOVE	WATER		cm TETH	R TYPE	spruce tree
					COMM	ENTS					
SITE ID hal	lf DN2	LOCAT	ION		d/s of F	Jolfur ov Divor					
LOCCED TYPE	Tidh	i4	LOCOFF	CEDIAL		lalfway River		BANK	50	0040	north
	Tidb	-	LOGGER		#	10669748)	UTM	59	8310 BC	6232377
DOWNLOAD DATE	28	Feb	2020 DC	OWNLOA	# DTIME	10669748 13:50		UTM CREW		8310 BC	6232377 TE
DOWNLOAD DATE	28	-	2020 DC	OWNLOA R TEMP	#	10669748 13:50 AIR TEM P	4.0	UTM CREW	59		6232377
DOWNLOAD DATE	28	Feb YSI	2020 DC	OWNLOA R TEMP	# D TIME 0.9 OGGER CO	10669748 13:50 AIR TEM P	4.0	UTM CREW			6232377 TE
DOWNLOAD DATE TEST RECORDER TYP	28 PE	Feb YSI	2020 DO WATE	OWNLOA R TEMP	# D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP INDITIONS EASON tamp EIGHT ABOVE	4.0 ered	UTM CREW ICE COI		ВС	6232377 TE none
DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	28 PE	Feb YSI cm DIS	2020 DO WATE	OWNLOA R TEMP	D TIME 0.9 OGGER CO yes RI	10669748 13:50 AIR TEMP INDITIONS EASON tamp EIGHT ABOVE	4.0 ered	UTM CREW ICE COI	NDITIONS	ВС	6232377 TE none
DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED NO	28 PE 40	Feb YSI cm DIS	2020 DC WATE SLODGED AL w et	OWNLOA R TEMP LO	D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger pulled to shore	28 PE 40	Feb YSI cm DIS	2020 DC WATE SLODGED AL w et	OWNLOA R TEMP LO	D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
WATER DEPTH BURIED no logger pulled to shore download OK	28 PE 40	Feb YSI cm DIS	2020 DC WATE SLODGED AL w et	OWNLOA R TEMP LO	D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
WATER DEPTH BURIED no ogger pulled to shore download OK Replac#15	28 PE 40 FU	Feb YSI cm DIS	2020 DC WATE SLODGED AL w et	OWNLOA R TEMP LO	D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
WATER DEPTH BURIED no logger pulled to shore download OK Replac#15	28 PE 40 FU	Feb YSI cm DIS	2020 DC WATE SLODGED AL w et	OWNLOA R TEMP LO	D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
WATER DEPTH BURIED no ogger pulled to shore download OK Replac#15	28 PE 40 FU	Feb YSI cm DIS	2020 DC WATE SLODGED AL w et	OWNLOA R TEMP LO	D TIME 0.9 OGGER CO yes RI IF DRY, H	10669748 13:50 AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
WATER DEPTH BURIED no logger pulled to shore dow nload OK Replac#15 stainless steel cable C	28 PE 40 FU by perso	Feb YSI cm DIS JNCTION	2020 DOWN WATE	OWNLOA R TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COM M	10669748 13:50 AIR TEMP INDITIONS EASON tamp EIGHT ABOVE ENTS w et today but	4.0 ered WATER	UTM CREW ICE COI	NDITIONS cm TETH	BC ER TYPE	6232377 TE none
WATER DEPTH BURIED no logger pulled to shore download OK Replac#15 stainless steel cable C	28 PE 40 FU by perso	Feb YSI cm DISINCTION ons unknown	2020 DOWN WATE SLODGED AL wet own and le	OWNLOAR TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COM M	10669748 13:50 AIR TEMP INDITIONS EASON tamp EIGHT ABOVE ENTS wet today but	4.0 ered WATER	UTM CREW ICE COI	nditions cm TETH	BC ER TYPE	6232377 TE none balsam pop
WATER DEPTH BURIED NO logger pulled to shore download OK Replac#15 stainless steel cable C	28 PE 40 FU by perso	Feb YSI cm DIS pons unknowns	2020 DOWN WATE SLODGED AL wet own and le	OWNLOAR TEMP LO Settin shall	# D TIME 0.9 OGGER CO yes RI IF DRY, H COM M	10669748 13:50 AIR TEMP INDITIONS EASON tamp EIGHT ABOVE ENTS wet today but dalfway River 10156314	4.0 ered WATER	UTM CREW ICE COI	nditions cm TETH	BC ER TYPE 8287	6232377 TE none balsam pop
WATER DEPTH BURIED NO logger pulled to shore download OK Replac#15 stainless steel cable C	28 PE 40 FU by perso	Feb YSI cm DIS pons unknown LOCAT it Feb	2020 DC WATE SLODGED AL wet own and le	OWNLOAR TEMP LO Set in shall R SERIAL DWNLOA	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water;	10669748 13:50 AIR TEMP INDITIONS EASON tamp EIGHT ABOVE ENTS wet today but dalfway River 10156314 13:38	4.0 ered WATER likely inte	UTM CREW ICE COI	nDITIONS cm TETHE / exposed	BC ER TYPE	6232377 TE none balsam pop north 6232344 TE
WATER DEPTH BURIED NO logger pulled to shore download OK Replac#15 stainless steel cable C	28 PE 40 FU by perso	Feb YSI cm DIS pons unknowns	2020 DC WATE SLODGED AL wet own and le	R TEMP R SERIAL DWNLOA R TEMP	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of F	AIR TEMP INDITIONS EASON tamp EIGHT ABOVE ENTS Wet today but Idalfway River 10156314 13:33 AIR TEMP	4.0 ered WATER	UTM CREW ICE COI	nditions cm TETH	BC ER TYPE	6232377 TE none balsam pop
WATER DEPTH BURIED NO logger pulled to shore download OK Replac#15 stainless steel cable C	28 PE 40 FU by perso	Feb YSI cm DIS pons unknowns	2020 DC WATE SLODGED AL wet own and le	R TEMP R SERIAL DWNLOA R TEMP	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO	AIR TEMP INDITIONS EASON tamp EIGHT ABOVE ENTS Wet today but Idalfway River 10156314 13:33 AIR TEMP	4.0 ered WATER likely inte	UTM CREW ICE COI	nDITIONS cm TETHE / exposed	BC ER TYPE	6232377 TE none balsam pop north 6232344 TE
WATER DEPTH BURIED no logger pulled to shore dow nload OK Replac#15 stainless steel cable C SITE ID half D LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	28 PE 40 FU by perso	Feb YSI cm DIS pons unknowns	2020 DO WATE SLODGED AL wet own and le	R TEMP R SERIAL DWNLOA R TEMP	# D TIME 0.9 OGGER CO yes RI IF DRY, H COM M low water; d/s of H # D TIME 0.9 OGGER CO yes RI	AIR TEMP NOITIONS EASON tamp EIGHT ABOVE ENTS wet today but dalfway River 10156314 13:39 AIR TEMP	4.0 ered WATER WATER likely inte	BANK UTM CREW ICE COI	nditions cm TETH / exposed	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE
WATER DEPTH BURIED NO logger pulled to shore download OK Replac#15 stainless steel cable C SITE ID half D LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	28 PE 40 FU by perso	Feb YSI Cm DISTRICTION DISTRICTION LOCAT it Feb YSI	2020 DO WATE SLODGED AL wet own and le	R TEMP R SERIAL DWNLOA R TEMP	# D TIME 0.9 OGGER CO yes RI IF DRY, H COM M low water; d/s of H # D TIME 0.9 OGGER CO yes RI	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	BANK UTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none
WATER DEPTH BURIED NO logger pulled to shore download OK Replac#15 stainless steel cable C SITE ID half D LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	28 PE 40 FU by perso	Feb YSI Cm DISTRICTION DISTRICTION LOCAT it Feb YSI	2020 DO WATE SLODGED AL wet own and le	R TEMP R SERIAL DWNLOA R TEMP	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO yes RI IF DRY, H	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	BANK UTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none
WATER DEPTH BURIED no logger pulled to shore download OK Replac#15 stainless steel cable Company of the compan	28 PE 40 FU by perso	Feb YSI Cm DIS INCTION DIS INCTION LOCAT it Feb YSI Cm DIS INCTION	2020 DC WATE SLODGED AL wet TION LOGGER 2020 DC WATE SLODGED AL wet	R TEMP LO R SERIAL DWILOA R TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO yes RI IF DRY, H	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	DTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none
WATER DEPTH BURIED no logger pulled to shore download OK Replac#15 stainless steel cable Completed to shore download DATE TEST RECORDER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger partially sw ungdownload OK	28 PE 40 FU by perso	Feb YSI Cm DIS INCTION DIS INCTION LOCAT it Feb YSI Cm DIS INCTION	2020 DC WATE SLODGED AL wet TION LOGGER 2020 DC WATE SLODGED AL wet	R TEMP LO R SERIAL DWILOA R TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO yes RI IF DRY, H	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	DTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none
BURIED no logger pulled to shore dow nload OK Replac#15 stainless steel cable Co SITE ID half D LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger partially sw ung dow nload OK Logger file ID: half DN2	28 PE 40 FU by perso	Feb YSI Cm DIS INCTION DIS INCTION LOCAT it Feb YSI Cm DIS INCTION	2020 DC WATE SLODGED AL wet TION LOGGER 2020 DC WATE SLODGED AL wet	R TEMP LO R SERIAL DWILOA R TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO yes RI IF DRY, H	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	DTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none
WATER DEPTH BURIED no logger pulled to shore download OK Replac#15 stainless steel cable C SITE ID half D LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger partially sw ung dow nload OK	28 PE 40 FU by perso	Feb YSI Cm DIS INCTION DIS INCTION LOCAT it Feb YSI Cm DIS INCTION	2020 DC WATE SLODGED AL wet TION LOGGER 2020 DC WATE SLODGED AL wet	R TEMP LO R SERIAL DWILOA R TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO yes RI IF DRY, H	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	DTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none
WATER DEPTH BURIED no Ogger pulled to shore download OK Replac#15 stainless steel cable Completed to shore download DATE TEST RECORDER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no Ogger partially sw ung download OK Logger file ID: half DN2 Logger file ID	28 PE 40 FU by perso	Feb YSI Cm DIS INCTION DIS INCTION LOCAT it Feb YSI Cm DIS INCTION	2020 DC WATE SLODGED AL wet TION LOGGER 2020 DC WATE SLODGED AL wet	R TEMP LO R SERIAL DWILOA R TEMP LO	# D TIME 0.9 OGGER CO yes RI IF DRY, H COMM low water; d/s of H # D TIME 0.9 OGGER CO yes RI IF DRY, H	AIR TEMP DIDITIONS EASON tamp EIGHT ABOVE ENTS wet today but 13:30 AIR TEMP INDITIONS EASON EGHT ABOVE	4.0 ered WATER WATER likely inte	DTM CREW ICE COI	nDITIONS cm TETHE / exposed 59 NDITIONS debris	BC R TYPE 8287 BC	6232377 TE none balsam pop north 6232344 TE none

BC HYDRO									
SITE ID pinel			RATURE MON		JOWNL				ORM
LOGGER TYPE	JP1 LOCA ⁻			of Pine River		BANK	SOL		0005007
DOWNLOAD DATE	2 June	LOGGER S	/NLOAD TIME	10669747 14:10	.	UTM	641	032 BC	6225367
TEST RECORDER TYPE		WATER		AIR TEMP	18.0	CREW	NDITIONS	ьс	
IEST RECORDER TIPE	131	WATER	LOGGER CO		16.0	ICECO	NDITIONS		none
WATER REPTU	100 B	IOL ODOFD							
		SLODGED	7	EASON		ice	debris		
BURIED no	FUNCTION	IAL wet	IF DRY, F	HEIGHT ABOVE	WATER		cm TETHER	RTYPE	alder
cable partially sw ung to dow nload OK Replac#14 Stainless steel cable rep	·		still functional						
CITCID	IDO LOGA:	FIGN		(B		DANIK	1		- 1
SITE ID pinel LOGGER TYPE	JP2 LOCA [*] Tidbit			of Pine River 20655135		BANK	0.44	65F	north
DOWNLOAD DATE	2 June	2020 DOW	/NLOAD TIME	20655135)	UTM	641	BC	6225305 TF
TEST RECORDER TYPE		WATER		AIR TEMP	18.0		NDITIONS	50	none
, , , , , , , , , , , , , , , , , , , ,	, 01		LOGGER CO		. 5.5				
WATER DEPTH	150 cm D	SLODGED		EASON					
BURIED no	FUNCTION		IF DRY, H	HEIGHT ABOVE	WATER		cm TETHER	RTYPE	poplar stump
			COMM	IENTS				Ì	
	DN1 LOCA			of Pine River		BANK	SOU		0000700
LOGGER TYPE	DN1 LOCA Tidbit	LOGGER S	ERIAL#	20655185		UTM	sot 648	074	6222792 TF
LOGGER TYPE DOWNLOAD DATE	DN1 LOCA Tidbit 2 June	LOGGER S	ERIAL# /NLOADTIME		18.0	UTM CREW	648		TE
LOGGER TYPE DOWNLOAD DATE	DN1 LOCA Tidbit 2 June	LOGGER S	ERIAL# /NLOADTIME	20655185 n/a AIR TEM P	18.0	UTM CREW		074	
LOGGER TYPE DOWNLOAD DATE	DN1 LOCA Tidbit 2 June : YSI	LOGGER S	ERIAL # //NLOAD TIME TEMP 8.3 LOGGER CO	20655185 n/a AIR TEM P	18.0	UTM CREW	648	074	TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	DN1 LOCA Tidbit 2 June : YSI	LOGGER S 2020 DOW WATER	FERIAL # //NLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, H	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE		UTM CREW ICE CO	648	074 BC	TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	DN1 LOCA Tidbit 2 June : YSI	LOGGER S 2020 DOW WATER	ERIAL # /NLOAD TIME TEMP 8.3 LOGGER CO	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE		UTM CREW ICE CO	648	074 BC	TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel	DN1 LOCA Tidbit 2 June : YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain	FERIAL # INLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMM	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for	WATER	OTM CREW ICE CO	nditions cm TETHEF 7, 2020	BC RTYPE	TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel	DN1 LOCA Tidbit 2 June : YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain	FERIAL # INLOAD TIME TEMP 8.3 LOGGER CC R IF DRY, F COMM Osule installed tod	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for	WATER	OTM CREW ICE COI	648 NDITIONS CM TETHER 7, 2020	BC RTYPE	TE none alder
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel SITE ID pineDN LOGGER TYPE	DN1 LOCA Tidbit 2 June YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain	JERIAL # JINLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMM Disule installed tod	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for the company of Pine River 10893055	WATER ound cut	OTM CREW ICE COI	nditions cm TETHEF 7, 2020	BC RTYPE	TE none alder
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel SITE ID pineDN LOGGER TYPE DOWNLOAD DATE	DN1 LOCA Tidbit 2 June : YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain	JERIAL # JINLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMM DISUBLE INSTAlled tool d/s co FERIAL # JINLOAD TIME	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for the company of Pine River 10893055 12:46	water ound cut	OTM CREW ICE COI	648 NDITIONS Cm TETHEF 7, 2020 Soc 648	BC RTYPE	TE none alder
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel SITE ID pineDN LOGGER TYPE DOWNLOAD DATE	DN1 LOCA Tidbit 2 June : YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain	JERIAL # JINLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMIM DISUITED INSTALLED TO THE TEMP 8.3	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for 10893055 12:46 AIR TEMP	WATER ound cut	OTM CREW ICE COI	648 NDITIONS CM TETHER 7, 2020	BC RTYPE	TE none alder
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel SITE ID pineDN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	DN1 LOCA Tidbit 2 June YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain	CERIAL # INLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMM DISUBLE INSTALLED TO THE COMM DISUBLE INSTALLED TO THE COMMENT OF TH	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for 10893055 12:46 AIR TEMP	water ound cut	OTM CREW ICE COI	648 NDITIONS Cm TETHEF 7, 2020 Soc 648	BC RTYPE	TE none alder
DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel SITE ID pineDN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	DN1 LOCA Tidbit 2 June YSI - cm D FUNCTION SN 20655185) cable with ste	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain FION LOGGER S 2020 DOW WATER SLODGED	CERIAL # INLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMM DISULE INSTALLED TO THE COMM DISULE INSTALLED TO THE COMM DISULE TEMP 8.3 LOGGER CO NO R	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for 10893055 12:46 AIR TEMP DNDITIONS	ound cut	ON Feb 2 BANK UTM CREW ICE COI	648 NDITIONS Cm TETHEF 7, 2020 Soc 648	BC BC RTYPE	TE none alder
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED New logger Replac#50 (replaced stainless steel SITE ID pineDN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	DN1 LOCA Tidbit 2 June YSI - cm D FUNCTION SN 20655185) cable with ste 1_BU LOCA Tidbit 2 June YSI 100 cm D	LOGGER S 2020 DOW WATER SLODGED IAL and steel capel chain FION LOGGER S 2020 DOW WATER SLODGED	CERIAL # INLOAD TIME TEMP 8.3 LOGGER CO R IF DRY, F COMM DISUBLE INSTALLED TO THE COMM DISUBLE INSTALLED TO THE COMM DISUBLE INSTALLED TO THE COMM DISUBLE TEMP 8.3 LOGGER CO NO R	20655185 n/a AIR TEMP DNDITIONS EASON HEIGHT ABOVE IENTS ay after cable for 10893055 12:46 AIR TEMP DNDITIONS EASON HEIGHT ABOVE	ound cut	ON Feb 2 BANK UTM CREW ICE COI	648 NDITIONS Cm TETHER 7, 2020 Solidate 648 NDITIONS	BC BC RTYPE	TE none alder

R	C HVD	PO DE	ACE DIVE	ED TEMPE	DATH	DE MON	NITORING - I		OADI	JEOPMA1	TION E	OPM
SITEID		pineMS1									110141	
_							River mainstem		BANK			north
LOGGER T			īdbit	LOGGER			10893069		UTM	641	757	6223604
DOWNLOA	D DATE	2	2 June	2020 DO	WNLOA	DTIME	13:41	1	CREW		ВС	TE
TEST RECO	ORDER	ГҮРЕ	YSI	WATER	RTEMP	8.3	AIR TEMP	18.0	ICECO	NDITIONS		none
					L	OGGER C	ONDITIONS					
WATER D	DEPTH	40	cm Di	SLODGED		yes F	REASON		ice	debris		
BURIED	no		FUNCTION	IAL wet		IF DRY.	HEIGHT ABOVE	WATER		cm TETHE	RTYPE	steel piling
							MENTS					otoor piiirig
logger parti	ially sw ı	ung to sh	ore by spri	ng ice break	up and	debris; w e	et today but likely	intermitte	ently exp	osed		
dow nload (OK											
Replac#28												
stainless st	teel cab	e OK										
SITEID		pineMS2	LOCAT	TION		Pine R	River mainstem		BANK			north
LOGGER T	YPE	1	īdbit	LOGGER	SERIAL	_ #	10635067		UTM	641	757	6223604
DOWNLOA	D DATE	2		2020 DO	WNLOA	DTIME	13:41	1	CREW		ВС	TE
TEST RECO	ORDER T	ГҮРЕ	YSI	WATE			AIR TEMP	18.0	ICECO	NDITIONS		none
					L		ONDITIONS					
WATER D		50		SLODGED		,	REASON		ice	debris		
BURIED	no		FUNCTION	IAL wet		,	HEIGHT ABOVE	WATER		cm TETHE	RTYPE	steel piling
						COM	MENTS					
 	lallız		h			المامام	l f atia l					
	•	ung to sr	ore by spri	ng ice break	up and	debris; stil	I functional					
dow nload (UK											
Replac#10	400l 00h	- OV										
stainless st	teel cab	e OK										
SITEID		heatMS1	LOCAT	FION		Poatte	on P mainstam		DANK	01	net	
SITE ID		beatMS1			SEDIAL		on R mainstem		BANK		ast	6221224
LOGGER T	YPE	1	īdbit	LOGGER	-	_ #	20322122	3	UTM		3118	6221234 TF
LOGGER T	YPE AD DATE		idbit 2 June	LOGGER 2020 DO	WNLOA	.# ADTIME	20322122 10:56	-	UTM CREW	663		TE
LOGGER T	YPE AD DATE		īdbit	LOGGER	WNLOA R TEMP	.# AD TIME 13.6	20322122 10:56 AIR TEMP	3 17.0	UTM CREW		3118	
LOGGER T DOWNLOA TEST RECO	YPE AD DATE ORDER	1 Е 2 Г ҮРЕ	idbit 2 June YSI	LOGGER 2020 DO' WATER	WNLOA R TEMP	.# AD TIME 13.6 OGGER C	20322122 10:56	-	UTM CREW	663	3118	TE
LOGGER T	YPE AD DATE ORDER		idbit 2 June YSI	LOGGER 2020 DO WATER	WNLOA R TEMP	TIME 13.6 OGGER C	20322122 10:56 AIR TEMP ONDITIONS REASON	17.0	UTM CREW	663	3118	TE none
LOGGER T DOWNLOA TEST RECO	YPE AD DATE ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE
LOGGER T DOWNLOA TEST RECO	YPE AD DATE ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO	YPE AD DATE ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO	ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	ORDER TO	1 Е 2 Г ҮРЕ	idbit 2 June YSI cm Di	LOGGER 2020 DO WATER	WNLOA R TEMP	.# 13.6 OGGER C IF DRY,	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED	OK	1 Е 2 Г ҮРЕ	idbit June YSI cm Di FUNCTION	LOGGER 2020 DO' WATER SLODGED IAL w et	WNLOA R TEMP	.# 13.6 OGGER C IF DRY, I	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW	663 NDITIONS Cm TETHE	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36	OK	TYPE 120 beatMS2	idbit June YSI cm Di FUNCTION	LOGGER 2020 DO' WATER SLODGED IAL w et	WNLOAR TEMP	D TIME 13.6 OGGER C IF DRY, I	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0	UTM CREW ICE CO	663 NDITIONS CM TETHE	B118 BC	TE none
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36	OK	120 beatMS2	June YSI cm DI FUNCTION	LOGGER 2020 DO' WATER SLODGED IAL W et	WNLOAR TEMP LOAD NO SERIAL	JE DE LE	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS	17.0 WATER	UTM CREW ICE CO	663 NDITIONS CM TETHE	B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36	DEPTH no OK	120 120 beatMS2	June YSI cm DI FUNCTION	LOGGER 2020 DO' WATER SLODGED IAL W et LOGGER 2020 DO'	NO SERIAL WILLOAR TEMP	Beatto	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE // IENTS DO R mainstem 20030828 11:10 AIR TEMP	17.0 WATER	UTM CREW ICE CO	663 NDITIONS CM TETHE	B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36	DEPTH no OK	to the state of th	LOCATION LOCATION LOCATION LOCATION June YSI	LOGGER 2020 DO' WATER SLODGED IAL W et LOGGER 2020 DO' WATER	NO SERIAL WILLOAR TEMP	Beatto # D TIME 13.6 OGGER C IF DRY, COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS On R mainstem 20030828 11:10 AIR TEMP ONDITIONS	17.0 WATER	UTM CREW ICE CO	ea 663	B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36 SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH no OK	120 120 beatMS2	LOCATION LOCATI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	NO SERIAL WILLOAR TEMP	Beatto # D TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE // IENTS DO R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON	17.0 WATER	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	B1118 BC R TYPE BSt B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36	DEPTH no OK	to the state of th	LOCATION LOCATION LOCATION LOCATION June YSI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	SERIAL WILOAR TEMP	Beatto # AD TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS ON R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0 WATER	UTM CREW ICE CO	ea 663	B1118 BC R TYPE BSt B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36 SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH no OK	to the state of th	LOCATION LOCATI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	SERIAL WILOAR TEMP	Beatto # AD TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE // IENTS DO R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON	17.0 WATER	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	B1118 BC R TYPE BSt B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36 SITE ID LOGGER T DOWNLOA TEST RECO WATER D	DEPTH no OK	to the state of th	LOCATION LOCATI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	SERIAL WILOAR TEMP	Beatto # AD TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS ON R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0 WATER	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	B1118 BC R TYPE BSt B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36 SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED	OK OEPTH no OK OEPTH no OK OCC OCC OCC OCC OCC OCC OCC	to the state of th	LOCATION LOCATI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	SERIAL WILOAR TEMP	Beatto # AD TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS ON R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0 WATER	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	B1118 BC R TYPE BSt B118 BC	TE none birch
LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36 SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED download G	OK OEPTH no OK OEPTH no OK OCC OCC OCC OCC OCC OCC OCC	to the state of th	LOCATION LOCATI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	SERIAL WILOAR TEMP	Beatto # AD TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS ON R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0 WATER	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	B1118 BC R TYPE BSt B118 BC	TE none birch
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LOGGER T DOWNLOA TEST RECO WATER D BURIED download G Replac#36 SITE ID LOGGER T DOWNLOA TEST RECO WATER D BURIED download G	OK OEPTH no OK OEPTH no OK OCC OCC OCC OCC OCC OCC OCC	to the state of th	LOCATION LOCATI	LOGGER 2020 DO' WATER SLODGED IAL Wet LOGGER 2020 DO' WATER	SERIAL WILOAR TEMP	Beatto # AD TIME 13.6 OGGER C IF DRY, I COMIN	20322122 10:56 AIR TEMP ONDITIONS REASON HEIGHT ABOVE //ENTS ON R mainstem 20030828 11:10 AIR TEMP ONDITIONS REASON HEIGHT ABOVE	17.0 WATER	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	B1118 BC R TYPE BSt B118 BC	TE none birch

SITEID	שוווט									AF(JKWV		
		pineMS1	LOCA				NITORING - River mainstem	DOWNL	BANK	TI OKIVIA	1011	north
OGGER T			idbit	LOGGER	SERIAL .		10893069		UTM	6/1	757	6223604
OWNLOA	D DATE	2	June	2020 DO			13:4	1	CREW	0+1	BC	
EST RECO			YSI		RTEMP	8.3	AIR TEMP	18.0	ICECO	NDITIONS		none
					LC	OGGER	CONDITIONS					
WATER D	DEPTH	40	cm D	ISLODGED		yes	REASON		ice	debris		
BURIED	no		FUNCTION	NAL wet		•	, HEIGHT ABOVE	WATER		cm TETHE	RTYPE	steel piling
							IMENTS					Otoor piiirig
dow nload C Replac#28 stainless st	OK						et today but likel		,,			
SITEID		pineMS2	LOCA	TION		Pine	River mainstem		BANK		1	north
OGGER T			idbit	LOGGER	SERIAL :		10635067		UTM	641	757	6223604
OOWNLOA				2020 DO			13:4	1	CREW	O+1	BC	
EST RECO	ORDER 1	ГҮРЕ	YSI	WATE	RTEMP	8.3	AIR TEMP	18.0	ICECO	NDITIONS		none
					LC		CONDITIONS					
WATER D		50		ISLODGED		yes	REASON A BOYE	- \A/A T.E.	ice	debris	D TVDC	
BURIED	no		FUNCTION	NAL wet			, HEIGHT ABOVE	WATER		cm TETHE	KITPE	steel piling
SITE ID OGGER T		beatMS1	LOCA	TION								
	D DATE	2	idbit	LOGGER 2020 DO	WNLOAD R TEMP	# D TIM E 13.6		6 17.0	BANK UTM CREW ICE CO		ast 3118 BC	6221234 TE none
	D DATE	2 ГҮРЕ	idbit June YSI	LOGGER 2020 DO WATER	WNLOAD R TEMP LC	# D TIM E 13.6	20322122 10:5 AIR TEMP CONDITIONS		UTM CREW	663	118	TE
EST RECO	D DATE	2	idbit June YSI	LOGGER 2020 DO WATER	WNLOAD R TEMP	# 13.6 DGGER	20322122 10:5 AIR TEMP	17.0	UTM CREW	663	B118 BC	TE
WATER D	D DATE ORDER 1	2 ГҮРЕ	idbit June YSI cm D	LOGGER 2020 DO WATER	WNLOAD R TEMP LC	# D TIME 13.6 DGGER	20322122 10:5 AIR TEMP CONDITIONS REASON	17.0	UTM CREW	663	B118 BC	TE none
WATER D BURIED	ORDER 1 DEPTH NO	2 ГҮРЕ	idbit June YSI cm D	LOGGER 2020 DO WATER	WNLOAD R TEMP LC	# D TIME 13.6 DGGER	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE	17.0	UTM CREW	663	B118 BC	TE none
WATER D BURIED How nload C Replac#36	DEPTH no	2 ГҮРЕ	idbit June YSI cm D FUNCTION	LOGGER 2020 DO WATER ISLODGED WAL wet	WNLOAD R TEMP LC	# 13.6 DTIME 13.6 DGGER	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE	17.0	UTM CREW	MDITIONS Cm TETHE	B118 BC	TE none
WATER D BURIED LOW nload C Replac#36	DEPTH no	the state of the s	June YSI cm D FUNCTION	LOGGER 2020 DO WATER ISLODGED NAL W et	WNLOAL RTEMP LC	# 13.6 DGGER IF DRY COM	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE IMENTS tton R mainstem 20030828	17.0	UTM CREW ICE CO	MDITIONS Cm TETHE	BC BC R TYPE	TE none birch
WATER D BURIED OWNIOAD C Replac#36 SITE ID OGGER TOOWNLOA	DEPTH no OK	the state of the s	LOCA	LOGGER 2020 DO WATER ISLODGED NAL W et LOGGER 2020 DO	WNLOAL RTEMP LC	# 13.6 DGGER IF DRY COM Beat	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE IMENTS tton R mainstem 20030828 11:1	17.0 EWATER	UTM CREW ICE CO	ea 663	BC BC R TYPE	TE none birch
WATER D BURIED OWNIOAD C Replac#36 SITE ID OGGER TOOWNLOA	DEPTH no OK	the state of the s	June YSI cm D FUNCTION	LOGGER 2020 DO WATER ISLODGED NAL W et LOGGER 2020 DO	SERIAL WILOAL RIEMP	Beat # D TIME 13.6 TIF DRY COM	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE IMENTS tton R mainstem 20030828 11:1 AIR TEMP	17.0	UTM CREW ICE CO	MDITIONS Cm TETHE	BC BC R TYPE	TE none birch
WATER D BURIED LOW nload C Replac#36 SITE ID LOGGER TOOWNLOA	DEPTH no OK YPE DORDER 1	the state of the s	LOCA LOCA LOCA LOCA June YSI	LOGGER 2020 DO WATER ISLODGED NAL W et LOGGER 2020 DO	SERIAL WILOAL RIEMP	Beat # D TIME 13.6 TIF DRY COM	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE IMENTS tton R mainstem 20030828 11:1	17.0 EWATER	UTM CREW ICE CO	ea 663	BC BC R TYPE	TE none birch
WATER D BURIED SOURCE SOURCE	DEPTH no OK YPE DORDER 1	20 120 beatMS2 T 2 2 TYPE 120	LOCA LOCA LOCA LOCA June YSI	LOGGER 2020 DO WATER SLODGED WAL Wet	SERIAL STEMP	# 13.6 DGGER Beat # DTIME 13.6 OGGER	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE IMENTS tton R mainstem 20030828 11:1 AIR TEMP CONDITIONS	17.0 EWATER 0 17.0	UTM CREW ICE CO	ea 663	BC B	TE none birch
dow nload CReplac#36 SITE ID LOGGER TOOWNLOA FEST RECO	DEPTH NO OK YPE AD DATE DEPTH DEPTH OCIT DEPTH DEPTH DEPTH	20 120 beatMS2 T 2 2 TYPE 120	LOCA LOCA LOCA June YSI LOCA June YSI	LOGGER 2020 DO WATER SLODGED WAL Wet	SERIAL STEMP	# 13.6 DGGER Bear # DTIME 13.6 OGGER Bear # DTIME 13.6 OGGER	20322122 10:5 AIR TEMP CONDITIONS REASON , HEIGHT ABOVE IMENTS tton R mainstem 20030828 11:1 AIR TEMP CONDITIONS REASON	17.0 EWATER 0 17.0	UTM CREW ICE CO	663 NDITIONS Cm TETHE 663 NDITIONS	BC B	TE none birch

					IITORING - I)()VV NI	OAD II	$N \vdash \Omega$	RMAT	$ION \vdash$	ORM
	pouceUP1	LOCATIO			m u/s of Pouce			11 0	SOL		
OGGER TYPE			LOGGER SE		20655184	SUMPO IX	UTM	11	3168		6225223
OWNLOAD DAT	E 2			LOAD TIME	16:19	5	CREW	••	0100	BC	
EST RECORDER		YSI	WATER T		AIR TEMP	20.0	ICECO	NDIT	IONS		none
				0)						
WATER DEPTH	150	cm DIS L	ODGED	no F	REASON		ice				
BURIED no		FUNCTIONAL	L yes	IF DRY. I	HEIGHT ABOVE	WATER		cm	TETHER	RTYPE	birch
			7	COMM							DIIOII
dow nload OK Replac#48 stainless steel cab	ole OK										
SITEID	pouceUP2	LOCATIO	N P	eace R mainste	mu/s of Pouce	Coune R	BANK				north
LOGGER TYPE			LOGGER SE		10893068	Joapo IX	UTM	11	3158	884	6226162
DOWNLOAD DATE				LOAD TIME	16:27	7	CREW	-		BC	
TEST RECORDER	TYPE	YSI	WATER T	EMP 11.2	AIR TEMP	20.0	ICECO	NDIT	IONS		none
				LOGGER CO		,					
WATER DEPTH	200	cm DISL		-	REASON A BOYE	NA/A T.T.			TCT 100	T/P=	
BURIED no		FUNCTIONAL	L w et	IF DRY, F	HEIGHT ABOVE	WATER		cm	TETHER	KIYPE	birch
SITE ID LOGGER TYPE DOWNLOAD DATI	E	LOCATIO	LOGGER SE	RIAL#			BANK UTM				
	TYPE	DIG	WATER T	LOGGER CO			CREW ICE CO	NDIT	IONS		
WATER DEPTH		cm DISL	WATER T	LOGGER CO	ONDITIONS REASON	· IMA TED	CREW			TVDE	
		cm DISL	WATER T	LOGGER CO	ONDITIONS REASON HEIGHT ABOVE	WATER	CREW		TETHER	RTYPE	
WATER DEPTH			WATER T	EMP LOGGER CO F IF DRY, H	ONDITIONS REASON HEIGHT ABOVE	WATER	CREW			RTYPE	
WATER DEPTH BURIED no		LOCATIO	WATER TO	EMP LOGGER COMIN	ONDITIONS REASON HEIGHT ABOVE	WATER	CREW ICE CO			₹TYPE	
WATER DEPTH BURIED no SITE ID LOGGER TYPE		LOCATIO	WATER TO	EMP LOGGER COMING IF DRY, F	ONDITIONS REASON HEIGHT ABOVE	WATER	CREW ICE CO			RTYPE	
WATER DEPTH BURIED no SITE ID LOGGER TYPE DOWNLOAD DAT	E	LOCATIO	WATER TO	EMP LOGGER COMIN IF DRY, F COMIN	ONDITIONS REASON HEIGHT ABOVE	WATER	BANK UTM CREW	cm	TETHER	RTYPE	
WATER DEPTH BURIED no SITE ID LOGGER TYPE DOWNLOAD DAT	E	LOCATIO	WATER TO	EMP LOGGER CO IF DRY, F COMIN	ONDITIONS REASON HEIGHT ABOVE TENTS AIR TEMP	WATER	CREW ICE CO	cm	TETHER	RTYPE	
WATER DEPTH BURIED no SITE ID LOGGER TYPE DOWNLOAD DAT	E	LOCATIO	ON LOGGER SE DOWN WATER T	EMP LOGGER COMIN RIAL # NLOAD TIME EMP LOGGER COMIN	ONDITIONS REASON HEIGHT ABOVE TENTS AIR TEMP	WATER	BANK UTM CREW	cm	TETHER	RTYPE	
SITE ID LOGGER TYPE DOWNLOAD DATI	E TYPE	LOCATIO	ON LOGGER SE DOWN WATER TO	EMP LOGGER COMIN RIAL # NLOAD TIME EMP LOGGER COMIN	AIR TEMP ONDITIONS AIR TEMP ONDITIONS REASON HEIGHT ABOVE		BANK UTM CREW	cm	TETHER		

BC HYDRO	PFAC	F RIVE	R TFM	PFRATU	RF MON	ITORING - I	INWOO	OAD II	NFC	RMAT	TION F	ORM
SITE ID half		LOCAT				lalfway River		BANK				north
LOGGER TYPE	Tidb			ER SERIAL		20030829		UTM		595	5559	6230543
DOWNLOAD DATE	3	June		DOWNLOA		10:23	3	CREW		330	BC	
TEST RECORDER TYPE	-	YSI		FER TEMP	6.6	AIR TEMP	14.0	ICECO	וחוא	PIONS	50	none
TEOT RESORDER THE		101	···	لتنظيم	OGGER CC		14.0	ICECC	INDI	110143		TIONE
WATER DEPTH	100	cm Di	SLODGE	_		EASON						
		INCTION					WATED.			TETHE		
BURIED no	FU	INC I ION	AL we	ŧl	COMM	EGHT ABOVE	WATER		CIII	IEINE	KIIPE	spruce
					COMIN	1110						
dow nload OK												
Replac#33												
stainless steel cable Oh	K											
SITE ID half	UP1	LOCAT	ION		u/s of H	lalfway River		BANK		so	uth	
LOGGER TYPE	Tidb	it	LOGG	ER SERIAL		26332123		UTM		595	181	6230117
DOWNLOAD DATE	3	June	2020 I	DOWNLOA	DTIME	10:46	3	CREW			ВС	TE
TEST RECORDER TYPI	E	YSI	WAT	TER TEMP	6.4	AIR TEMP	14.0	ICECO	NDI	TIONS		none
MATER DERTI	000		01.05.5		OGGER CC							
	200	cm DI: INCTION	SLODGE			EASON	NA/A TER		_	TET 10		
BURIED no	FU	INCTION	AL we	et	COM M	EIGHT ABOVE	WATER		cm	TETHE	RIYPE	spruce tree
					COIVIIVI	ENIS						
dow nload OK												
dow nload OK												
Replac#39												
stainless steel cable Or	K											
SITE ID half	DN2	LOCAT	ION		d/s of H	Halfwav River		BANK				north
-	DN2 Tidb			ER SERIAL		Halfway River		BANK UTM		598	3310	north 6232377
LOGGER TYPE			LOGG	ER SERIAL DOWNLOA	#		3			598	310 BC	6232377
LOGGER TYPE DOWNLOAD DATE	Tidb 3	it	LOGG 2020 I		#	10669748	3 16.0	UTM)NDI			6232377
LOGGER TYPE DOWNLOAD DATE	Tidb 3	June YSI	LOGGI 2020 I WAT	DOWNLOA FER TEMP LO	# D TIME 10.0	10669748 11:23		UTM CREW	DNDI			6232377 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	Tidb 3 E	June YSI cm Di	LOGGI 2020 I WAT	DOWNLOA FER TEMP LO	# 10.0 OGGER CO	10669748 11:23 AIR TEMP DNDITIONS EASON	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE	Tidb 3 E	June YSI	LOGGI 2020 I WAT	DOWNLOA FER TEMP LO	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS	ВС	6232377 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	Tidb 3 E	June YSI cm Di	LOGGI 2020 I WAT	DOWNLOA FER TEMP LO	# 10.0 OGGER CO	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED NO	Tidb 3 E 0	June YSI cm DI	LOGG 2020 I WAT SLODGE	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore	Tidb 3 E 0	June YSI cm DI	LOGG 2020 I WAT SLODGE	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore download OK	Tidb 3 E 0	June YSI cm DI	LOGG 2020 I WAT SLODGE	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15	Tidb 3 E 0 FU	June YSI cm DISINCTION	LOGGI 2020 I WAT SLODGE AL	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15	Tidb 3 E 0 FU	June YSI cm DISINCTION	LOGGI 2020 I WAT SLODGE AL	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15	Tidb 3 E 0 FU	June YSI cm DISINCTION	LOGGI 2020 I WAT SLODGE AL	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15	Tidb 3 E 0 FU	June YSI cm DISINCTION	LOGGI 2020 I WAT SLODGE AL	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RI IF DRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee	Tidb 3 E 0 FU by sprin	June YSI cm DISINCTION	LOGG 2020 I WAT SLODGE AL s; high an	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RIF DRY, H	AIR TEMP DIDITIONS EASON EIGHT ABOVE	16.0	UTM CREW ICE CO	d	TIONS ebris	ВС	6232377 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee	Tidb 3 E 0 FU by sprin	June YSI Cm DISINCTION INCTION mg debris w ith stee	LOGGI 2020 I WAT SLODGE AL s; high an	DOWNLOA FER TEMP LO D dry	# D TIME 10.0 OGGER CO yes RIFDRY, H	10669748 11:23 AIR TEMP ONDITIONS EASON IEIGHT ABOVE	16.0	UTM CREW ICE CO ice 100	d	Ebris TETHE	ВС	6232377 TE none balsam pop
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE	Tidb 3 E 0 FU by sprin	June YSI Cm DISINCTION INCTION mg debris w ith stee	LOGGE 2020 I WAT SLODGE AL S; high an el chain	DOWNLOA FER TEM P Loa D dry and dry	# D TIME 10.0 OGGER CO yes RIFDRY, H COMM	AIR TEMP DIDITIONS EASON BEGHT ABOVE ENT'S	16.0	UTM CREW ICE CO ice 100	d	Ebris TETHE	BC R TYPE	6232377 TE none balsam pop
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE	Tidb 3 E 0 FU by sprin	June YSI cm DISINCTION ng debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an LOGGE LOGGE 2020 I	DOWNLOA FER TEM P LO D dry ad dry	# D TIME 10.0 OGGER CO yes RIFDRY, H COMM	AIR TEMP DIDITIONS EASON EIGHT ABOVE ENTS Half w ay River 10156314	16.0	UTM CREW ICE CO ice 100	d	ebris TETHE	BC R TYPE	6232377 TE none balsam pop
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE	Tidb 3 E 0 FU by sprin	June YSI cm DISINCTION mg debris with stee	LOGGE 2020 I WAT	DOWNLOA FER TEM P LO dry dd dry ER SERIAL DOWNLOA FER TEM P	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM	AIR TEMP DIDITIONS EASON BEGHT ABOVE ENTS Halfway River 10156314 11:02	16.0 WATER	UTM CREW ICE CO ice 100	d	ebris TETHE	BC R TYPE	6232377 TE none balsam pop north 6232344 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15 replaced stainless stee SITE ID half Dh LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH	Tidb 3 E 0 FU by spriii l cable v Tidb 3 E	June YSI cm DI3 INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CC yes RIFDRY, HCOMM	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:03 AIR TEMP DIDITIONS EASON HALFWAY AIR TEMP DIDITIONS EASON	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI	Tidb 3 E 0 FU by spriii l cable v Tidb 3 E	June YSI cm DISINCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHE	BC R TYPE	6232377 TE none balsam pop north 6232344 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15 replaced stainless stee SITE ID half Dh LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH	Tidb 3 E 0 FU by spriii l cable v Tidb 3 E	June YSI cm DI3 INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CC yes RIFDRY, HCOMM	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15 replaced stainless stee SITE ID half Dh LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH	Tidb 3 E 0 FU by spriii l cable v Tidb 3 E	June YSI cm DI3 INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no	Tidb 3 E 0 FU by spriii l cable v Tidb 3 E	June YSI cm DI3 INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore download OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no	Tidb 3 E 0 FU by sprii	June YSI cm DI3 INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no dow nload OK Logger file ID: half DN2	Tidb 3 E 0 FU by sprii	June YSI cm DI3 INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPI WATER DEPTH BURIED no dow nload OK Logger file ID: half DN2 steel tether chain OK	Tidb 3 E 0 FU by sprii cable v Tidb 3 E 100 FU	June YSI cm DI INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH BURIED no logger sw ung to shore dow nload OK Replac#15 replaced stainless stee SITE ID half DN LOGGER TYPE DOWNLOAD DATE TEST RECORDER TYPE WATER DEPTH	Tidb 3 E 0 FU by sprii cable v Tidb 3 E 100 FU	June YSI cm DI INCTION mg debris with stee	LOGGE 2020 I WAT SLODGE AL S; high an El chain LOGGE 2020 I WAT	DOWNLOA FER TEM P LO D dry dd dry ER SERIAL DOWNLOA FER TEM P LO D no	# D TIME 10.0 OGGER CO yes RIFDRY, HCOMM d/s of H# D TIME 10.0 OGGER CO RIFDRY, H	AIR TEMP DIDITIONS EASON Halfway River 10156314 11:0: AIR TEMP DIDITIONS EASON HEIGHT ABOVE	16.0 WATER 2 16.0	UTM CREW ICE CO ice 100	d cm	Ebris TETHEL 598 TIONS ebris	BC R TYPE	6232377 TE none balsam pop north 6232344 TE none

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	gmsUP1	LOCATIO			S Forebay	OWILL	BANK	ORMATION	I I OINW
OGGER TYPE	Tidl		LOGGER SEF		20332187		UTM	548841	6209022
DOWNLOAD DATE	6		2020 DOWNI		11:53	<u> </u>	CREW		BC TE
EST RECORDER T		YSI	WATER TE		AIR TEMP	18			
EST RECORDER T	IPE	131	WATERIE		7	10	ICE CONE	DITIONS	none
MATER REPTI	400	DIC:	ODOFF	LOGGER CC					
WATER DEPTH	100	-			EASON				
BURIED no	F	UNCTIONAL	w et		EIGHT ABOVE	WATER	10	n TETHER TYP	PE steel buoy
				COMM	ENTS		<u> </u>		
Dow nload OK Stainless steel cable Replac#43	e OK								
	gmsUP2	LOCATIO			S Forebay		BANK		
OGGER TYPE	Tidl		LOGGER SEF		10676160		UTM	548841	6209022
OWNLOAD DATE			020 DOWNI		11:56		CREW		BC TE
EST RECORDER T	TPE	YSI	WATER TE		AIR TEMP	18	ICE CONE	INS	none
WATER DEPTH	10	m Diei	.ODGED n	LOGGER CC	EASON				
BURIED no		m DISL UNCTIONAL			EIGHT ABOVE	WATER	or	n TETHER TYF	PE steel buoy
TIO TIO		O. TO I TOTAL	*** 01	COMM		·/AILI	CI	II TEITIEIX I I I	- steer buoy
I TEID g	gmsDN2	LOCATIO	N	GMS T	ailrace RDB		BANK		north
OGGER TYPE	Tidl	bit I	LOGGER SEF	RIAL#	10669739		BANK UTM	548828	6207836
OGGER TYPE	Tidl 6	bit I	LOGGER SEE	RIAL# LOADTIME	10669739 10:39		UTM CREW		
OGGER TYPE OWNLOAD DATE	Tidl 6	bit I	LOGGER SEF	RIAL# LOADTIME EMP 6.6	10669739 10:39 AIR TEMP	18	UTM		6207836
OGGER TYPE OWNLOAD DATE EST RECORDER T	Tidl 6 YPE	bit Jul 2 YSI	LOGGER SER 2020 DOWNI WATER TE	RIAL# LOAD TIME EMP 6.6 LOGGER CO	10669739 10:39 AIR TEMP NDITIONS		UTM CREW		6207836 BC TE
OGGER TYPE OOWNLOAD DATE EST RECORDER T WATER DEPTH	Tidl 6 YPE	bit I Jul 2 YSI cm DISL	LOGGER SER 020 DOWNI WATER TE	RIAL # LOAD TIME MP 6.6 LOGGER CO	10669739 10:39 AIR TEMP INDITIONS EASON	18	UTM CREW ICE CONE	DITIONS	6207836 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T	Tidl 6 YPE	bit Jul 2 YSI	LOGGER SER 020 DOWNI WATER TE	RIAL # LOAD TIME MP 6.6 LOGGER CO	10669739 10:39 AIR TEMP INDITIONS EASON EGHT ABOVE	18	UTM CREW ICE CONE		6207836 BC TE none
OGGER TYPE OOWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no	150 Fi	bit Jul 2 YSI cm DISL	LOGGER SER 1020 DOWNI WATER TE ODGED n	RIAL # LOAD TIME MP 6.6 LOGGER CO	10669739 10:39 AIR TEMP INDITIONS EASON EGHT ABOVE	18	UTM CREW ICE CONE	DITIONS	6207836 BC TE none
OGGER TYPE OOWNLOAD DATE EST RECORDER T WATER DEPTH	150 Plac#11, DN2BU in	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsu	CODGED no. wet	RIAL # LOAD TIME MP 6.6 LOGGER CC NO RI IF DRY, H COMM	10669739 10:39 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded	18 WATER	UTM CREW ICE CONE	DITIONS	6207836 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no rimary Logger - Re tack-up logger gms oth dow nloads OK able OK (stainless	150 Plac#11, DN2BU in	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsu	ODGED now et al. Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO IN RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a	10669739 10:39 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded	18 WATER	UTM CREW ICE CONE	DITIONS	6207836 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Primary Logger - Re Back-up logger gms oth dow nloads OK able OK (stainless	150 150 Fluit plac#11, DN2BU in Section 2 steel cab	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsulate section at	ODGED now et al. Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO IO RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a	10669739 10:39 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock)	18 WATER	UTM CREW ICE CONE	DITIONS TETHER TYP	6207836 BC TE none PE rock
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no rimary Logger - Re tack-up logger gms oth dow nloads OK able OK (stainless OGGER TYPE OWNLOAD DATE	150 Poplac#11, DN2BU in steel cab	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsulole section at	ODGED n Water Te ODGED n Wet Use Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO IO RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a	10669739 10:39 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52	18 WATER @ 10:39	CREW ICE CONE CON	south 548881	6207836 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no rimary Logger - Re ack-up logger gms oth dow nloads OK able OK (stainless ITE ID g OGGER TYPE OWNLOAD DATE	150 Poplac#11, DN2BU in steel cab	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsulate section at	ODGED nowell water te	RIAL # LOAD TIME MP 6.6 LOGGER CO IO RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a GMS 7 RIAL # LOAD TIME MP 9.3	AIR TEMP AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP	18 WATER @ 10:39	CREW ICE CONE	south 548881	6207761 6207761
OGGER TYPE DOWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Primary Logger - Re Back-up logger gms both downloads OK bable OK (stainless SITE ID g OGGER TYPE DOWNLOAD DATE EST RECORDER T	plac#11, DN2BU in steel cab	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulate section at the sectio	ODGED nowell water te	RIAL # LOAD TIME MP 6.6 LOGGER CO IO RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a GMS 7 RIAL # LOAD TIME MP 9.3 LOGGER CO	AIR TEMP AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS	18 WATER @ 10:39	CREW ICE CONE CON	south 548881	6207761 BC TE none 6207761
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Primary Logger - Re Back-up logger gms oth dow nloads OK able OK (stainless SITE ID g OGGER TYPE OWNLOAD DATE EST RECORDER T	plac#11, DN2BU in steel cab gmsDN1 Tidl 6 YPE 30**	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulole section at	ODGED nowning water teached to galle; Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO IO RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a GMS 7 RIAL # LOAD TIME MP 9.3 LOGGER CO IO RI	AIR TEMP AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP	18 WATER @ 10:39	CREW ICE CONE CON	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Primary Logger - Re Back-up logger gms oth dow nloads OK able OK (stainless SITE ID g OGGER TYPE OWNLOAD DATE EST RECORDER T	plac#11, DN2BU in steel cab gmsDN1 Tidl 6 YPE 30**	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsulole section at	ODGED nowning water teached to galle; Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO IO RI IF DRY, H COMM 37, SN 2033212 Ivanized cable a GMS 7 RIAL # LOAD TIME MP 9.3 LOGGER CO IO RI	AIR TEMP AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE	18 WATER @ 10:39	CREW ICE CONE	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNILOAD DATE EST RECORDER T WATER DEPTH BURIED no Primary Logger - Re Back-up logger gms oth downloads OK cable OK (stainless SITE ID g OGGER TYPE OWNILOAD DATE EST RECORDER T WATER DEPTH BURIED no	plac#11, DN2BU in steel cab gmsDN1 Tidl 6 YPE 30**	bit Jul 2 YSI Cm DISL UNCTIONAL SN 1066973 same capsulole section at 1000 LOCATIO bit Jul 2 YSI Cm DISL UNCTIONAL	ODGED nowning water teached to galle; Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO NO RI IF DRY, H COMM 37, SN 2033212 IVANIZED CABLE A RIAL # LOAD TIME MP 9.3 LOGGER CO NO RI IF DRY, H	AIR TEMP AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE	18 WATER @ 10:39	CREW ICE CONE	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNILOAD DATE EST RECORDER T WATER DEPTH BURIED no Primary Logger - Re Back-up logger gms oth dow nloads OK rable OK (stainless SITE ID g OGGER TYPE OWNILOAD DATE EST RECORDER T WATER DEPTH BURIED no	Tidl 6 YPE 150 Fi splac#11, DN2BU in 5 steel cab YPE 30** Fi ir level ver	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulole section at Jul 2 YSI cm DISL UNCTIONAL	ODGED nowning water teached to galle; Replac#	RIAL # LOAD TIME MP 6.6 LOGGER CO NO RI IF DRY, H COMM 37, SN 2033212 IVANIZED CABLE A RIAL # LOAD TIME MP 9.3 LOGGER CO NO RI IF DRY, H COMM	AIR TEMP AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE	18 WATER @ 10:39	CREW ICE CONE	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Trimary Logger - Re tack-up logger gms oth dow nloads OK able OK (stainless OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no TDinosaur Reservoir Trimary logger - Rep	Tidl 6 YPE 150 File plac#11, DN2BU in steel cab Tidl 6 YPE 30** File ir level ver blac#47 (S	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulole section at 1 LOCATIO bit Jul 2 YSI cm DISL UNCTIONAL	ODGED nowning water teached to galle; Replac# ttached to galle ODGED nowning water teached to galle ODGED	RIAL # LOAD TIME MP 6.6 LOGGER CO NO RI IF DRY, H COMM 37, SN 2033212 IVANIZED CABLE A RIAL # LOAD TIME MP 9.3 LOGGER CO NO RI IF DRY, H COMM	AIR TEMP PINDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS	18 WATER @ 10:39	CREW ICE CONE BANK UTM CREW ICE CONE Cr	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no rimary Logger - Re ack-up logger gms oth dow nloads OK able OK (stainless ITE ID g OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no	Tidl 6 YPE 150 File plac#11, DN2BU in steel cab Tidl 6 YPE 30** File ir level ver blac#47 (S	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulole section at 1 LOCATIO bit Jul 2 YSI cm DISL UNCTIONAL	ODGED nowning water teached to galle; Replac# ttached to galle ODGED nowning water teached to galle ODGED	RIAL # LOAD TIME MP 6.6 LOGGER CO NO RI IF DRY, H COMM 37, SN 2033212 IVANIZED CABLE A RIAL # LOAD TIME MP 9.3 LOGGER CO NO RI IF DRY, H COMM	AIR TEMP PINDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS	18 WATER @ 10:39	CREW ICE CONE BANK UTM CREW ICE CONE Cr	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no rimary Logger - Re ack-up logger gms oth dow nloads OK able OK (stainless ITE ID g OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Dinosaur Reservoirimary logger - Rep	Tidl 6 YPE 150 File plac#11, DN2BU in steel cab Tidl 6 YPE 30** File ir level ver blac#47 (S	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulole section at 1 LOCATIO bit Jul 2 YSI cm DISL UNCTIONAL	ODGED nowning water teached to galle; Replac# ttached to galle ODGED nowning water teached to galle ODGED	RIAL # LOAD TIME MP 6.6 LOGGER CO NO RI IF DRY, H COMM 37, SN 2033212 IVANIZED CABLE A RIAL # LOAD TIME MP 9.3 LOGGER CO NO RI IF DRY, H COMM	AIR TEMP PINDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS	18 WATER @ 10:39	CREW ICE CONE BANK UTM CREW ICE CONE Cr	south 548881	6207761 BC TE none 6207761 BC TE none
OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no rimary Logger - Re ack-up logger gms oth dow nloads OK able OK (stainless ITE ID g OGGER TYPE OWNLOAD DATE EST RECORDER T WATER DEPTH BURIED no Dinosaur Reservoirimary logger - Rep	Tidl 6 YPE 150 File plac#11, DN2BU in steel cab Tidl 6 YPE 30** File ir level ver blac#47 (S	bit Jul 2 YSI cm DISL UNCTIONAL SN 1066973 same capsulole section at 1 LOCATIO bit Jul 2 YSI cm DISL UNCTIONAL	ODGED nowning water teached to galle; Replac# ttached to galle ODGED nowning water teached to galle ODGED	RIAL # LOAD TIME MP 6.6 LOGGER CO NO RI IF DRY, H COMM 37, SN 2033212 IVANIZED CABLE A RIAL # LOAD TIME MP 9.3 LOGGER CO NO RI IF DRY, H COMM	AIR TEMP PINDITIONS EASON EIGHT ABOVE ENTS 21 downloaded around rock) Failrace LDB 20655136 10:52 AIR TEMP INDITIONS EASON EIGHT ABOVE ENTS	18 WATER @ 10:39	CREW ICE CONE BANK UTM CREW ICE CONE Cr	south 548881	6207761 BC TE none 6207761 BC TE none

BC HVD	RO PEAC	CE RIVE	TEMPE	RATII	RE MONI	TORING - I	DOWNI	OAD II	VEORMA"	TION F	ORM
-	pcnUP1	LOCATION				l Forebay		BANK	u Oranza		north
LOGGER TYPE	Tidl		LOGGER	SERIAI		20332186		UTM	562	2684	6204075
DOWNLOAD DATE			2020 DO V			9:38	,	CREW	302	BC	
TEST RECORDER 1		YSI	WATER		11.9	AIR TEMP	16.0		NDITIONS		none
					OGGER CO			102 00			
WATER DEPTH	100	cm DIS	LODGED	no		EASON					
BURIED no		UNCTIONA		110		EIGHT ABOVE	WATED		cm TETHE	D TVDE	
BURIED 110	-	DINC HONA	L wet		COMMI		WATER		CIII TEITHE	KIIFE	log boom
					COMM	2110					
dow nload OK											
stainless steel cabl	e OK										
Replac#42											
OLTELE	B) :=										
	pcnDN2	LOCATIO		0ED: * /		N Tailrace		BANK		2000	north
LOGGER TYPE	Tidl 6		2020 DOV			10156319	,	UTM	562	2803 BC	6204854
DOWNLOAD DATE TEST RECORDER 1		Jul YSI	WATER		9.2	9:27 AIR TEM P	15.0	CREW	MOLTIONS	BC	
1231 RECURDER	ITE	1 01	VVATER		9.2 DGGER CO		13.0	ICE CO	NDITIONS		none
WATER DEPTH	150	cm DIS	LODGED	no		EASON					
BURIED no		UNCTIONA				EIGHT ABOVE	WATER		cm TETHE	RTYPE	rock
					COMM						
SITE ID po	cnDN2_BU	LOCATI	ON		PCN	N Tailrace		BANK			north
LOGGER TYPE	Tidl	bit	LOGGER	SERIAL	#	10635061		UTM	562	2803	6204854
DOWNLOAD DATE			2020 DO V		DTIME	9:28	}	CREW		ВС	TE
TEST RECORDER	TYPE	YSI	WATER		9.2	AIR TEMP	15.0	ICECO	NDITIONS		none
WATER DEPTH	150	cm DIS	LODGED	no	OGGER CO	EASON				i	
BURIED no		UNCTIONA		110		EIGHT ABOVE	WATER		cm TETHE	RTYPE	rock
BOINED 110	1.	ONO I TONA	L WCt		COMM		WATER		CIII TETTILE	KIIIL	TOCK
Dow nload OK											
stainless steel cabl											
Anchored to same	rock as pc	nDN2									
Replac#9											
		LOCATION	ON					BANK			
SITEID			LOGGER	SERIAL	#			UTM			
			DO		DTIME			CREW			
LOGGER TYPE DOWNLOAD DATE				TEMP		AIR TEMP		ICECO	NDITIONS		
LOGGER TYPE			WATER								
LOGGER TYPE DOWNLOAD DATE TEST RECORDER 1		DIO.			OGGER CO	NDITIONS					
LOGGER TYPE DOWNLOAD DATE TEST RECORDER T WATER DEPTH	ГҮРЕ		LODGED		RE	NDITIONS EASON	WATER		cm TETHE	R TYPE	
LOGGER TYPE DOWNLOAD DATE TEST RECORDER 1	ГҮРЕ	cm DIS	LODGED		RE IF DRY, H	NDITIONS EASON EIGHT ABOVE	WATER		cm TETHE	R TYPE	
LOGGER TYPE DOWNLOAD DATE TEST RECORDER T WATER DEPTH	ГҮРЕ		LODGED		RE	NDITIONS EASON EIGHT ABOVE	WATER		cm TETHE	R TYPE	
WATER DEPTH	ГҮРЕ		LODGED		RE IF DRY, H	NDITIONS EASON EIGHT ABOVE	WATER		cm TETHE	R TYPE	
LOGGER TYPE DOWNLOAD DATE TEST RECORDER T WATER DEPTH	ГҮРЕ		LODGED		RE IF DRY, H	NDITIONS EASON EIGHT ABOVE	WATER		cm TETHE	R TYPE	
LOGGER TYPE DOWNLOAD DATE TEST RECORDER T WATER DEPTH	ГҮРЕ		LODGED		RE IF DRY, H	NDITIONS EASON EIGHT ABOVE	WATER		cm TETHE	R TYPE	
LOGGER TYPE DOWNLOAD DATE TEST RECORDER T WATER DEPTH	ГҮРЕ		LODGED		RE IF DRY, H	NDITIONS EASON EIGHT ABOVE	WATER		ст ТЕТНЕ	R TYPE	
LOGGER TYPE DOWNLOAD DATE TEST RECORDER T WATER DEPTH	ГҮРЕ		LODGED		RE IF DRY, H	NDITIONS EASON EIGHT ABOVE	WATER		ст ТЕТНЕ	R TYPE	

SITE ID gmsUP1 LOCATION GMS Forebat LOGGER TYPE Tidbit LOGGER SERIAL # 2033 TEST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS SITE ID gmsUP2 LOCATION GMS Forebat LOGGER TYPE TIdbit LOGGER SERIAL # 1067 BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS SITE ID gmsUP2 LOCATION GMS Forebat LOGGER TYPE TIDBIT NO FUNCTIONAL wet IF DRY, HIGHT A COMMENTS WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS DOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME TEST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER SERIAL # 1067 BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS DOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME TEST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER SERIAL # 1066 BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS DOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME TEST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER SERIAL # 1066 STEELD gmsDN2 LOCATION GMS Tailrace F LOGGER TYPE TIDBIT LOGGER SERIAL # 1066 BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS SITE ID gmsDN2 LOCATION GMS Tailrace F LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HIGHT A COMMENTS Primary Logger - Replac#11, SN 10669739 Back-up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in same capsule; Replac#37, SN 20332121 down In Back up logger gmsDN2BUI in sam	14:17	ONDITIONS Cm TETHER T	BC TE none YPE steel buoy 1 6209022 BC TE none
OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS THE ID gmsUP2 LOCATION GMS Foreba OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS THE ID gmsDN2 LOCATION GMS Tailrace F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS TOWN IN IDATE IS NOV 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE TIDD GMS TAILRACE F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL Wet IF DRY, HEIGHT A COMMENTS TITE ID GMS DNY LOCATION GMS TAILRACE COMMENTS TITE ID GMS DNY LOCATION GMS TAILRACE CABLE AROUND TO T	14:17 CREW IP -10 ICE C B OVE WATER BANK 1160 UTM 14:19 CREW IP -10 ICE C	ONDITIONS CM TETHER T 54884	BC TE none YPE steel buoy 1 6209022 BC TE none
WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN rload OK tainless steel cable OK eplac#43 (SN 20332187) retired and replaced with Replac#51 SN 20823636 ITE ID gmsUP2 LOCATION GMS Foreba 1067 OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN rload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOR COMMENTS OWN rload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOR COMMENTS OWN rload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOR COMMENTS OWN rload OK tainless steel cable of FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN rload OK tainless steel cable section attached to galvanized cable around replaced of the comment	BANK 1160 UTM 14:19 CREW 1P -10 ICE C	CM TETHER T	none YPE steel buoy 1 6209022 BC TE none
WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN fload OK tainless steel cable OK eplac#43 (SN 20332187) retired and replaced with Replac#51 SN 20823636 ITE ID gmsUP2 LOCATION GMS Forebat OGGER TYPE Tidbit LOGGER SERIAL # 1067 OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN fload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOR COMMENTS OWN fload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOR COMMENTS OGGER TYPE Tidbit LOGGER SERIAL # 1066 OGGER TYPE TIDBIT SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 down for the down loads OK able OK (stainless steel cable section attached to galvanized cable around recorded to galvanized cable around r	BANK 1160 UTM 14:19 CREW	cm TETHER T	YPE steel buoy 1 6209022 BC TE none
WATER DEPTH 100 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#43 (SN 20332187) retired and replaced with Replac#51 SN 20823636 ITE ID gmsUP2 LOCATION GMS Forebar OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OGGER TYPE Tidbit LOGGER SERIAL # 1066 OGGER TYPE TIDBIT TO THE TEMP 5.7 AIR TEMP 5.7 AI	BANK 1160 UTM 14:19 CREW 1P -10 ICEC	54884 / ONDITIONS	1 6209022 BC TE none
BURIED NO FUNCTIONAL Wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#43 (SN 20332187) retired and replaced with Replac#51 SN 20823636 ITE ID gmsUP2 LOCATION GMS Forebar ON COMMENTS OWNLOAD DATE 18 Nov 2020 DWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION REASON BURIED NO FUNCTIONAL Wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOWNLOAD DATE 18 Nov 2020 DWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER SERIAL # 1066 OWNLOAD DATE 18 Nov 2020 DWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED NO REASON BURIED NO FUNCTIONAL Wet IF DRY, HEIGHT A COMMENTS Firmary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloat down nloads OK able OK (stainless steel cable section attached to galvanized cable around recorder to the comment of the co	BANK 1160 UTM 14:19 CREW 1P -10 ICE C	54884 / ONDITIONS	1 6209022 BC TE none
COMMENTS COMMEN	BANK 1160 UTM 14:19 CREW 1P -10 ICE C	54884 / ONDITIONS	1 6209022 BC TE none
OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TIGHT TO THE PRINCE OWN FILE ID GET TYPE TO THE TO THE TYPE TO THE	BANK 1160 UTM 14:19 CREW 1P -10 ICE C	54884 ONDITIONS	1 6209022 BC TE none
tainless steel cable OK eplac#43 (SN 20332187) retired and replaced with Replac#51 SN 20823636 ITE ID gmsUP2 LOCATION GMS Foreba OGGER TYPE Tidbit LOGGER SERIAL # 1067 OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE ENTERCORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS Timary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloth dow nloads OK able OK (stainless steel cable section attached to galvanized cable around recorded to galvanized cab	1160 UTM 14:19 CREW 1P -10 ICE C	54884 ONDITIONS	BC TE none
OGGER TYPE Tidbit LOGGER SERIAL # 1067 OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS COM	1160 UTM 14:19 CREW 1P -10 ICE C	54884 ONDITIONS	BC TE none
OGGER TYPE OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS TOWNLOAD OK tainless steel cable OK teplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 THE ID gmsDN2 LOCATION GMS Tailrace FOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS TIME ID GMS Tailrace FOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS TIME ID GMS Tailrace II GMS TAILRAC	14:19 CREW 1P -10 ICE C	ONDITIONS	BC TE none
EST RECORDER TYPE WATER DEPTH 10 m DISLODGED NO REASON BURIED NO FUNCTIONAL Wet IF DRY, HEIGHT A COMMENTS TOWN NOTE: The comment of	IP -10 ICEC	ONDITIONS	none
WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace F OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS rimary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloads OK able OK (stainless steel cable section attached to galvanized cable around ro ITE ID gmsDN1 LOCATION GMS Tailrace L OGGER TYPE Tidbit LOGGER SERIAL # 2065	3		
WATER DEPTH 10 m DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS OWN nload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TEMP STREED NO FUNCTIONAL WET IF DRY, HEIGHT A COMMENTS WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL WET IF DRY, HEIGHT A COMMENTS Frimary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloath of the downloads OK able OK (stainless steel cable section attached to galvanized cable around recorded to galvanized to galva		cm TETHER T	YPE steel buo
BURIED NO FUNCTIONAL Wet COMMENTS OWN Iload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TEMP STREED NO FUNCTIONAL WET IF DRY, HEIGHT A COMMENTS WATER DEPTH 150 cm DISLODGED NO REASON BURIED NO FUNCTIONAL WET IF DRY, HEIGHT A COMMENTS Firmary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloath downloads OK able OK (stainless steel cable section attached to galvanized cable around recorded to galvanized to galv	OVE WATER	cm TETHER T	YPE steel buo
OWN nload OK tainless steel cable OK teplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOGGER TYPE Tidbit LOGGER SERIAL # 10660 OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS Timary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloath downloads OK able OK (stainless steel cable section attached to galvanized cable around recorded to galvanized to galvanized to galvanized to galvanized to galvanized to galvanized to	OVE WATER	CM TEIHER I	steel buo
ow nload OK tainless steel cable OK eplac#20 (SN 10676160) retired and replaced with Replac#52 SN 20823637 ITE ID gmsDN2 LOCATION GMS Tailrace FOGGER TYPE Tidbit LOGGER SERIAL # 1066 OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME EST RECORDER TYPE YSI WATER TEMP 5.7 AIR TE LOGGER CONDITION WATER DEPTH 150 cm DISLODGED no REASON BURIED no FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS Timary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloath downloads OK able OK (stainless steel cable section attached to galvanized cable around recorded to galvanized to galvanized to galvanized to galvanized			
FUNCTIONAL wet IF DRY, HEIGHT A COMMENTS Timary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloth downloads OK able OK (stainless steel cable section attached to galvanized cable around round to get the complex of the co	739 UTM 13:05 CREW IP -10 ICE C	548828	north 3 6207836 BC TE none
rimary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloth downloads OK able OK (stainless steel cable section attached to galvanized cable around round round round gmsDN1 LOCATION GMS Tailrace LOGGER TYPE Tidbit LOGGER SERIAL # 2065			
rimary Logger - Replac#11, SN 10669739 ack-up logger gmsDN2BU in same capsule; Replac#37, SN 20332121 downloth downloads OK able OK (stainless steel cable section attached to galvanized cable around round round gmsDN1 LOCATION GMS Tailrace LOGGER TYPE Tidbit LOGGER SERIAL # 2065	OVE WATER	cm TETHER T	YPE rock
OGGER TYPE Tidbit LOGGER SERIAL # 2065			
OGGER TYPE Tidbit LOGGER SERIAL # 2065		south	
	DB RANK	54888	
OWNLOAD DATE 18 Nov 2020 DOWNLOAD TIME			BC TE
EST RECORDER TYPE YSI WATER TEMP 5.6 AIR TE		ONDITIONS	none
LOGGER CONDITION	136 UTM 13:25 CREW 1P -10 ICE C		
WATER DEPTH 150 cm DISLODGED no REASON	136 UTM 13:25 CREW 1P -10 ICE C	,	VDE :
BURIED no FUNCTIONAL w et IF DRY, HEIGHT A COMMENTS	136 UTM 13:25 CREW 1P -10 ICE C	TELED T	YPE rock
COMMENTS	136 UTM 13:25 CREW 1P -10 ICE C	cm TETHER T	
	136 UTM 13:25 CREW 1P -10 ICE C	cm TETHER T	
rimary logger - Replac#47 (SN 20655136) - Download OK	136 UTM 13:25 CREW 1P -10 ICE C	cm TETHER T	
ack-up logger gmsDN1BU in same capsule; Replac#19, SN 10676155; Dow	136 UTM 13:25 CREW 1P -10 ICE C	cm TETHER T	
	1336 UTM 13:25 CREW 1P -10 ICE C	cm TETHER T	

						IUNING - I		OAD INF	·ORMA	IION FU	ORM
LOGGER TYPE	pcnUP1	LOCAT				Forebay		BANK			north
	Tidl		LOGGER	SERIAI #	. 5.1	20332186		UTM	562	684	6204075
DOWNLOAD DATE	18	Nov	2020 DOV		ГІМЕ	11:43	3	CREW	002	BC T	
TEST RECORDER		YSI	WATER		5.6	AIR TEMP	-12.0	ICE CON	DITIONS		none
				LOG	GER CO	NDITIONS					
WATER DEPTH	100	cm DIS	SLODGED	no	RE	ASON					
BURIED no		UNCTION				GHT ABOVE	WATER	C	m TETHE	RTYPE	log boom
DOTALES 110		one men	IZ WOL		COMME			0.	TETTIE	V1112	log boom
dow nload OK stainless steel cabl Replac#42 Moved logger one b		closer to s	shore due to	deteriorat	ing log						
	pcnDN2	LOCAT			PCN	Tailrace		BANK			north
LOGGER TYPE DOWNLOAD DATE	Tidl		LOGGER S		TIM E	10156319	n	UTM	562	1803	6204854
TEST RECORDER 1		Nov YSI	WATER		5.5	10:40 AIR TEMP	-12.0	CREW ICE CON	PINOITIC	BC T	none
LOT RESORDER		, 01	WAID			NDITIONS	12.0	.oc con	J. 110140		1.0110
WATER DEPTH	120	cm DIS	SLODGED	no		ASON					
BURIED no	F	UNCTION	AL wet			EGHT ABOVE	WATER	С	m TETHE	RTYPE	rock
					COMME	ENTS					
SITE ID po	cnDN2_BU Tidl		ION LOGGER S	SERIAL #	PCN	Tailrace 10635061		BANK UTM	563	2803	north 6204854
OOWNLOAD DATE		Nov	2020 DOV		ГІМЕ	10:34	4	CREW	302	BC T	
TEST RECORDER 1	TYPE	YSI	WATER	TEMP	5.5	AIR TEMP	-12.0	ICE CON	DITIONS		ΤE
				LOG	GER CO						none
	·				<u></u>	NDITIONS					
WATER DEPTH	120		SLODGED	no	RE	ASON					
WATER DEPTH BURIED no		cm DIS			RE DRY, HE	ASON EIGHT ABOVE	WATER	C	m TETHE	R TYPE	
Download OK stainless steel cable anchored to same	FI le buried fro	om summe	AL wet	IF	RE	ASON EIGHT ABOVE	WATER	C	m TETHE	RTYPE	none
Dow nload OK stainless steel cable Anchored to same Replac#9	le buried fro	om summe	er spill but Ol	K K SERIAL #	REF DRY, HE	ASON EIGHT ABOVE	WATER	BANK UTM	m TETHE	RTYPE	none
Download OK stainless steel cabl Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE	le buried fro	om summe	er spill but Ol	SERIAL #	REF DRY, HE	ASON EIGHT ABOVE	WATER	BANK		RTYPE	none
Download OK stainless steel cabl Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE	le buried fro	om summe	er spill but OI ION LOGGER S DOV	SERIAL # VNLOAD T TEMP	REF DRY, HE	EASON EIGHT ABOVE ENTS	WATER	BANK UTM CREW		RTYPE	none
Download OK stainless steel cable Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE SET RECORDER TOWNLOAD DATE OF TEST RECORDER TOWNLOAD DATE OF	le buried fro	om summe nDN2	er spill but Ol ION LOGGER S DOV WATER	SERIAL # VNLOAD T TEMP LOG	REF DRY, HE COMME	AIR TEMP NOTIONS		BANK UTM CREW ICE CONI	DITIONS		none
Dow nload OK stainless steel cabl Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER TO	le buried fro	om summe nDN2	er spill but Ol ION LOGGER S DOV WATER	SERIAL # VNLOAD T TEMP LOG	REF DRY, HE COMME	AIR TEMP		BANK UTM CREW ICE CONI			none

	EACE DIVED	TEMPERATURE	MONITOR	ING DOV	VNI OAD I	NEODMAT	ION EC	DM
SITE ID gmsUl		_					ION FC	VK IVI
LOGGER TYPE			GMS Fore	•	BANK		044	0000000
		OGGER SERIAL # 21 DOWNLOAD		0823636	UTM	548	841 BC 7	6209022
DOWNLOAD DATE	YSI			13:42 TEMP 2	CREW			
TEST RECORDER TYPE	131	WATER TEMP			ICEC	ONDITIONS		60 cm
WATER SECTION			GER CONDIT	_				
		DDGED no	REASC					
BURIED no	FUNCTIONAL	w et IF	· ·	Γ ABOVE WA	TER	cm TETHER	RTYPE	steel buoy
			COMMENTS					
Dow nload OK Stainless steel cable OK Replac#51								
OITE ID	M 1 001 7101		0110.5		D 4 1 11 /			
SITE ID gmsUl			GMS Fore		BANK	5.40	044	0000000
LOGGER TYPE DOWNLOAD DATE		OGGER SERIAL # 21 DOWNLOAD		0823637 13:39	UTM	548	841 BC 7	6209022 F
TEST RECORDER TYPE	YSI	WATER TEMP		TEMP 2		ONDITIONS	ьс	none
J. N. JOHNEY THE	101		GER CONDIT		ICEC	JADITIONS		
WATER DEPTH 1	0 m DISLO	DDGED no	REASO	_				
BURIED no	FUNCTIONAL			L ABOVE MA.	TER	cm TETHER	RTYPE	steel buoy
			COMMENTS					
SITEID gmsDI	N2 LOCATION	ı	GMS Tailrac	e RDB	BANK			north
LOGGER TYPE		OGGER SERIAL #		0669739	UTM	548	828	6207836
DOWNLOAD DATE	23 Feb 20	21 DOWNLOAD	ГІМЕ	12:37	CREW		BC	Έ
TEST RECORDER TYPE	YSI	WATER TEMP	1.2 AIF	TEMP 2	ICEC	ONDITIONS		none
			GER CONDIT	IONS				
	00 cm DISLO		REASC					
BURIED no	FUNCTIONAL	w et IF		L ABOVE MA.	TER	cm TETHER	RTYPE	rock
			COMMENTS					
Primary Logger - Replac# Back-up logger gmsDN2E Both dow nloads OK cable OK (stainless stee	BU in same capsul	e; Replac#37, SN			2:37			
SITE ID gmsDl	N1 LOCATION	I	GMS Tailrad	e LDB	BANK	SOL	uth	
LOGGER TYPE		OGGER SERIAL #		0655136	UTM	548	881	6207761
DOWNLOAD DATE		21 DOWNLOAD		12:54	CREW		BC	Έ
TEST RECORDER TYPE	YSI	WATER TEMP		TEMP 2	ICEC	ONDITIONS		none
WATER DEPTH 20 BURIED no	00 cm DISLO FUNCTIONAL	DDGED no	GER CONDIT REASO DRY, HEIGH COMMENTS	N ABOVE WA	TER	cm TETHER	RTYPE	rock
Primary logger - Replac#4 Back-up logger gmsDN1E	. ,							

B(; HYI)					$R \vdash M \cap M$	I () R N (- -	JU JVV INI	II DAO	MECHINA.	TION F	CKM
SITEID	pcnUP1	LOCAT		-11//10		l Forebay	DOMINE	BANK	u Ortina	110111	north
LOGGER TYPE	Tidk		LOGGER	SERIAL		20332186		UTM	563	2684	6204075
DOWNLOAD DATE		Feb	2021 DO	_		11:27	7	CREW	302	BC	
TEST RECORDER		YSI	WATER		1.0	AIR TEMP	2.0		NDITIONS		none
			111111		OGGER CO			102 00	TETT TOTAL		
WATER DEPTH	100	cm DIS	SLODGED	no		EASON					
BURIED no		JNCTION		110		EIGHT ABOVE	WATED		cm TETHE	D TV DE	
BURIED 110	FC	JINC I ION	AL Wel		COMMI		WATER		CIII TETHE	KIIFE	log boom
					COMM	2110					
dow nload OK											
stainless steel cab	le OK										
Replac#42											
SITE ID	pcnDN2	LOCAT				l Tailrace		BANK			north
LOGGER TYPE	Tidb		LOGGER	-		10156319		UTM	562	2803	6204854
DOWNLOAD DATE		Feb	2021 DO			11:08		CREW	MOITIONS	ВС	
TEST RECORDER	ITPE	YSI	WATER		0.9 DGGER CO	AIR TEMP	2.0	ICE CO	NDITIONS		none
WATER DEPTH	150	cm DIS	SLODGED	no		EASON					
BURIED no		JNCTION				EIGHT ABOVE	WATER		cm TETHE	RTYPE	rock
					COMM						. 30
Dow nload OK											
Replac#1											
SITE ID no	nDN2 RII	LOCAT	ION		DCN	LTailraga		DANK			porth
	cnDN2_BU			SEDIAL		Tailrace		BANK	560	2902	north
LOGGER TYPE	Tidk	oit	LOGGER		#	10635061	3	UTM	562	2803 BC	6204854
· ·	Tidb			WNLOA	#		3 2.0	UTM CREW		2803 BC	6204854
LOGGER TYPE DOWNLOAD DATE	Tidb	oit Feb	LOGGER 2021 DO	WNLOA R TEM P	# DTIME	10635061 11:08 AIR TEM P		UTM CREW	562		6204854 TE
LOGGER TYPE DOWNLOAD DATE	Tidb	Feb YSI	LOGGER 2021 DO	WNLOA R TEM P	# D TIME 0.9 DGGER CO	10635061 11:08 AIR TEM P		UTM CREW			6204854 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER	Tidk = 23 TYPE 150	Feb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 DGGER CO	10635061 11:08 AIR TEMP NDITIONS	2.0	UTM CREW		BC	6204854 TE
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk = 23 TYPE 150	Feb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 DGGER CO	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk = 23 TYPE 150	Feb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no	Tidk = 23 TYPE 150	Feb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK	150 FL	reb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same	150 FL	reb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no	150 FL	reb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same	150 FL	reb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same	150 FL	reb YSI cm DIS	LOGGER 2021 DO WATER	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9	150 FL	reb YSI DIS JNCTION	LOGGER 2021 DO' WATER SLODGED AL Wet	WNLOA R TEMP LO	# 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW ICE CO	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9	150 FL	reb YSI cm DIS	LOGGER 2021 DO' WATER SLODGED AL Wet	WNLOA R TEMP Lo	# D TIME 0.9 OGGER CO RE IF DRY, H	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW ICE CO	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9	Tidk 23 TYPE 150 FU rock as per	reb YSI DIS JNCTION	LOGGER 2021 DO' WATER SLODGED AL Wet	WNLOA R TEMP Lo	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW ICE CO	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE	Tidk 23 TYPE 150 FU rock as per	reb YSI DIS JNCTION	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO'	WNLOAR TEMP LO no SERIAL	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI	10635061 11:08 AIR TEMP NDITIONS EASON EIGHT ABOVE	2.0	UTM CREW ICE CO	NDITIONS	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE	Tidk 23 TYPE 150 FU rock as per	reb YSI DIS JNCTION	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO'	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI	AIR TEMP	2.0	UTM CREW ICE CO	CM TETHE	BC	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE	Tidk 23 TYPE 150 FU rock as per	reb YSI cm DIS JNCTION	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO'	SERIAL WNLOAR TEMP	# D TIME 0.9 DGGER CO RE IF DRY, HI COMMI	AIR TEMP	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 DGGER CO RE IF DRY, HI COMMI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED NO Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED NO Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED NO Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none
LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH BURIED no Download OK Anchored to same Replac#9 SITE ID LOGGER TYPE DOWNLOAD DATE TEST RECORDER WATER DEPTH	Tidk 23 TYPE 150 FU rock as pcr	reb YSI cm DIS JNCTION LOCAT	LOGGER 2021 DO' WATER SLODGED AL Wet LOGGER DO' WATER	SERIAL WNLOAR TEMP	# D TIME 0.9 OGGER CO RE IF DRY, HI COMIMI # D TIME OGGER CO RE IF DRY, HI	AIR TEMP NDITIONS AIR TEMP AIR TEMP AIR TEMP NDITIONS EASON EIGHT ABOVE ENTS	2.0	UTM CREW ICE CO	CM TETHE	R TYPE	6204854 TE none

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

Site ID	Serial #	Location	Date Deployed	Replace Date
gmsUP1	20823636	WAC Bennett Forebay	Nov 2020	2026
gmsUP2	20823637	WAC Bennett Forebay	Nov 2020	2026
gmsDN1	20655136	GMS Tailrace	Feb 2020	2026
gmsDN1BU	10676155	GMS Tailrace	Feb 2020	2026
gmsDN2	10669739	GMS Tailrace	Apr 2015	2021
gmsDN2BU	20332121	GMS Tailrace	Jul 2018	2024
pcnUP1	20332186	Peace Canyon Forebay	Mar 2019	2025
pcnDN2	10156319	Peace Canyon Tailrace	Feb 2020	2026
pcnDN2BU	10635061	Peace Canyon Tailrace	Apr 2015	2021