

Real Time Water Quality Monthly Report Minipi River July - October 2007

General

• The Water Resources Management Division staff monitors the real-time web page on a daily basis.

Maintenance and Calibration of Instrumentation

• The instrument at Minipi River was installed on July 19th, 2007. The results from comparing the Minisonde values to the Datasonde values during the installation can be seen in **Table 1**.

Table 1: QA/QC Data Comparison Rankings upon initial installation on June 30th, 2007

Station	Date	Action	Minisonde vs. Datasonde Comparison Ranking			
			Temperature	рН	Conductivity	Dissolved Oxygen
Minipi River	July 19 th , 2007	Installation	Excellent	Excellent	Poor	NA*

* Dissolved oxygen probe on the Minsonde not functioning properly.

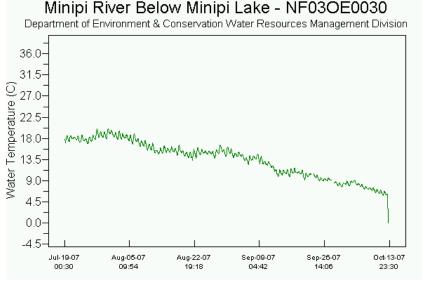
• Upon removal, Minisonde readings were taken for QA/QC purposes. The results from comparing the Minisonde values to the Datasonde values can be seen in **Table 2**.

Table 2: QA/QC Data Comparison Rankings upon removal and reinstallation on Oct. 13th, 2007

Station	Date	Action	Minisonde vs. Datasonde Comparison Ranking			
			Temperature	рН	Conductivity	Dissolved Oxygen
Minipi River	Oct. 13 th , 2007	Removal	Excellent	Good	Poor	Poor

Data Interpretation

- This monthly report interprets the data from the Minipi River station for the period of July 19th October 13th, 2007.
- The water temperature (Figure 1) showed an decrease throughout the deployment period which is expected as this time of the year. The dissolved oxygen (Figure 2) showed a corresponding increase in values. The dissolved oxygen values fall within the majority of the recommended CCME Protection of Aquatic Life guidelines for dissolved oxygen (cold water/other life stages above 6.5; warm water/other life stages above 5.5; warm water/early life stages above 6; cold water/early life stages 9.5 mg/L).





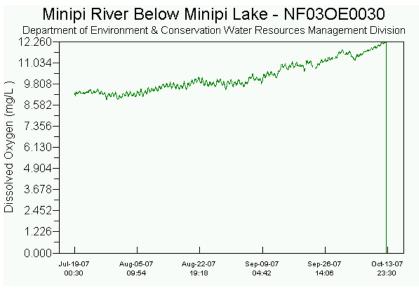
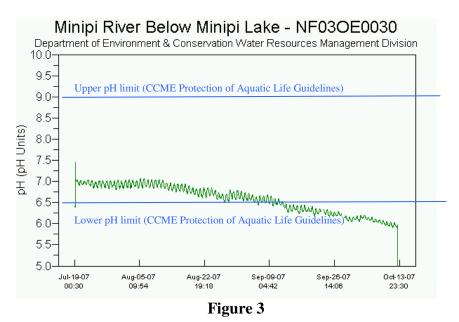
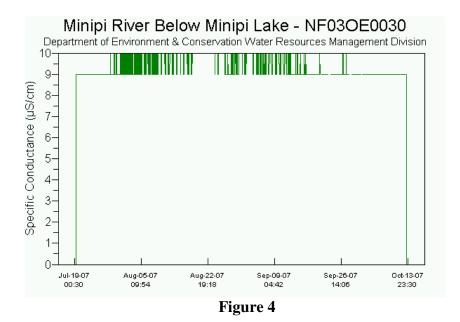


Figure 2

• The pH values (**Figure 3**) for Minipi River station remained fairly consistent throughout the months of July and August. There was a drop in pH values starting in early September which could be attributed the extended deployment period and a consequent loss of calibration. The QA/QC results however indicate a good ranking between Minisonde and Datasonde readings which indicates that this may be a natural occurrence. This will be reviewed to see if this pattern will follow in the next year of deployment.



• The specific conductivity (**Figure 4**) values remained very consistent throughout the deployment period.



• The turbidity values (Figure 5) remained consistent around 0 NTU throughout the deployment period.

