

The Town of Fort Frances Water System  
General QMS Administration

PROCEDURE TITLE: Document Change Request Form  
QMS REFERENCE: Element No. 5 - APPENDIX "A"

REVISION #4  
QMS REPRESENTATIVE:

## DOCUMENT CHANGE REQUEST FORM

Requested By: QMS Team

Date: June 7, 2016

Department: O. & F. Division

### Type of Change:

☐ Edit Existing Document   ☐ Create New Document   ☐ Delete Document

### Changes Requested:

1. Element 6 Drinking Water System - wording pertaining to the fire pump.

### Justification for Changes:

1. Page 24 - 26 – subsection **6.7 Water Treatment Description – Brief Description**
  - a) The existing fire pump within the plant is now redundant since the commissioning of the new emergency standby generation.

### Proposed Changes:

1. Page 24 – subsection **6.7 Water Treatment Description – Brief Description**
  - a) Treated Water Pump Wells: first line – remove the wording "the fire pump".
  - b) Plant Effluent Discharge Header: first sentence – remove the wording "and the fire pump".
2. Page 26 – **Process Flow Diagram**

The process flow diagram has been amended by removing the fire pump.

Page 1 of 1

### Approval:

QMS Representative: *[Signature]* Date: 08-06-2016

### Comments:

IN REFERENCE TO CAR # 2016-002

The Town of Fort Frances Water System  
General QMS Administration

PROCEDURE TITLE: Drinking Water System

REVISION #9

QMS REFERENCE: ELEMENT NO. 6

QMS REPRESENTATIVE: *[Signature]*

Treated Water Pump Wells

The treated water pump well contains ~~the fire pump~~, the filter backwash pump and high lift pumps number 1, 2, 3 and 4. It is located between the two reservoirs cells.

High Lift Pumps

These four units draw water from the treated water pump wells and are of varying capacities and are controlled by the water elevation in the Elevated Storage Tank/Water Tower.

High lift pump No. 1 and No. 4 – equipped with a 60hp variable frequency drive electric motor capable of providing flows up to 63.1 L/s.

High Lift Pump No. 2 – equipped with a 100hp electric motor, rated to deliver 94.7 L/s.

High Lift Pump No. 3 – equipped with a 125hp electric motor rated to deliver 126.2 L/s.

Backwash Pump

The backwash pump is used for back washing the filters and draws water from the pump well. This unit is rated to deliver 300 L/s and is equipped with a 75 hp electric motor.

Plant Effluent Discharge Header

The plant effluent discharge header receives the flow from the high lift pumps ~~and the fire pump~~ and directs it to the Town's water distribution system. Also there is one chlorine-fluoride analyzer, which continually monitors the concentration of these two chemicals prior to entering the water distribution system.

Rated Capacity Of The Plant

17,000 m<sup>3</sup>/d or 3,744,493 gallons per day.  
196.76 litres/sec or 11.806 m<sup>3</sup>/min

Computer

The computer process control system known as a S.C.A.D.A. System (Supervisory Control and Data Acquisition) is the heart of the Water Treatment Plant. It starts the plant, opens and closes valves, starts and stops motors, maintains the set chemical dosages, back washes filters and many more operational adjustments.

**Water Treatment Plant  
Town of Fort Frances**

