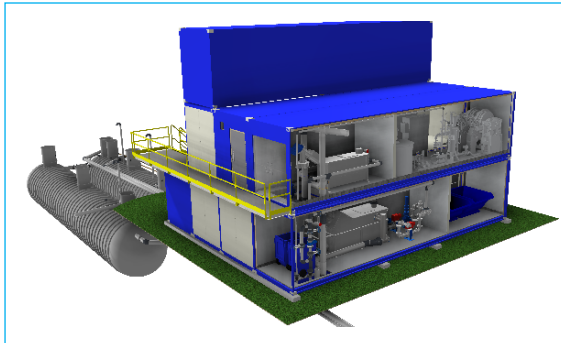


# TREATMENT UNIT

## MINING CAMP WASTEWATER



### WASTEWATER AND SLUDGE TREATMENT

#### LOCATION

Northern Quebec

#### COMMISSIONING

2015

#### DESCRIPTION

Biological treatment for organic pollution (BOD<sub>5</sub>) and total ammonia nitrogen (NH<sub>3</sub>-N).

#### EQUIPMENT

- Rotary screen
- Septage receiving system
- Suspended Media Biological Reactor SMBR™
- Membrane filtration system
- Sludge dewatering system

#### SERVICES

- Design
- Equipment supply
- Installation
- Start-up
- Performance testing
- Operation monitoring
- Technical assistance

Parameter		Value	Unit
<b>Average Flow</b>		264	m <sup>3</sup> /d
<b>BOD<sub>5</sub></b>	Influent	152	mg/L
	Effluent	5	mg/L
<b>SS</b>	Influent	182	mg/L
	Effluent	<2	mg/L
<b>NH<sub>3</sub>-N</b>	Influent	15	mg/L
	Effluent	2	mg/L
<b>TP</b>	Influent	6	mg/L
	Effluent	0,1	mg/L

RBQ LICENCE: 2206-1089-23

# TREATMENT UNIT

## MINING CAMP WASTEWATER



### WASTEWATER TREATMENT

#### LOCATION

Northern Quebec

#### COMMISSIONING

2014

#### DESCRIPTION

Biological treatment for organic pollution (BOD<sub>5</sub>).

#### EQUIPMENT

- Suspended Media Biological Reactor SMBR™  
1 bioreactor
- Prefab FRP insulated aboveground tank
- Instrumentation & Controls

#### SERVICES

- Commissioning
- Performance testing
- Technical assistance

Parameter	Value	Unit
<b>Design Flow</b>	252	m <sup>3</sup> /d
<b>BOD<sub>5</sub></b>	Influent	228 mg/L
	Effluent	15 mg/L

RBQ LICENCE: 2206-1089-23

# TREATMENT UNIT

## MINING CAMP WASTEWATER



### WASTEWATER TREATMENT

#### LOCATION

Northern Quebec

#### COMMISSIONING

2012

#### DESCRIPTION

Biological treatment for organic pollution (BOD<sub>5</sub>) and total ammonia nitrogen (NH<sub>3</sub>-N).

#### EQUIPMENT

- Suspended Media Biological Reactor SMBR™ 2 bioreactors
- HDPE tanks in a prefab building
- Instrumentation & Controls

#### SERVICES

- Commissioning
- Operation monitoring
- Technical assistance

Parameter	Value	Unit
<b>Maximum Flow</b>	110	m <sup>3</sup> /d
<b>BOD<sub>5</sub></b>	Influent	150 mg/L
	Effluent	10 mg/L
<b>NH<sub>3</sub>-N</b>	Influent	44 mg/L
	Effluent	10 mg/L

RBQ LICENCE: 2206-1089-23

# TREATMENT UNIT

## MINING CAMP WASTEWATER



 **SANITARY WASTEWATER TREATMENT**

### LOCATION

Côte-Nord, Quebec

### COMMISSIONING

2013

### DESCRIPTION

Biological treatment for organic pollution (BOD<sub>5</sub>) and ammonia nitrogen (NH<sub>3</sub>-N).

### EQUIPMENT

- Preassembled 40' containers
- Suspended Media Biological Reactor SMBR™ 1 bioreactor
- Prefab steel tank
- Clarifier
- UV disinfection system

### SERVICES

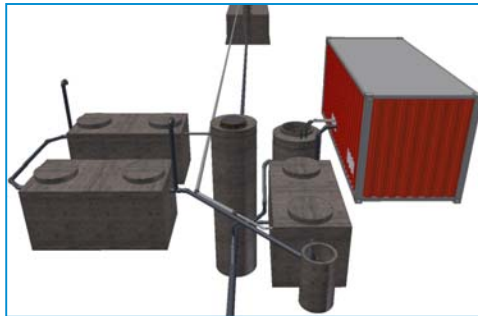
- Commissioning
- Operation support
- Technical assistance

Parameter		Value	Unit
<b>Design Flow</b>		90	m <sup>3</sup> /d
<b>BOD<sub>5</sub></b>	Influent	80	mg/L
	Effluent	20	mg/L
<b>SS</b>	Influent	50	mg/L
	Effluent	20	mg/L
<b>NH<sub>3</sub>-N</b>	Influent	30	mg/L
	Effluent	10	mg/L
<b>TP</b>	Influent	2	mg/L
	Effluent	1	mg/L

RBQ LICENCE: 2206-1089-23

# TREATMENT UNIT

## MINING CAMP WASTEWATER



### SANITARY WASTEWATER TREATMENT

#### LOCATION

Côte-Nord, Quebec

#### COMMISSIONING

2013

#### DESCRIPTION

Biological treatment for organic pollution (BOD<sub>5</sub>) and total ammonia nitrogen (NH<sub>3</sub>-N).

#### EQUIPMENT

- Preassembled 20' container
- Suspended Media Biological Reactor SMBR™  
2 bioreactors in series
- Precast concrete underground tanks
- Clarifier
- Chemical feed system
- Instrumentation & Controls

#### SERVICES

- Commissioning
- Operation support
- Technical assistance

Parameter	Value	Unit
<b>Design Flow</b>	45	m <sup>3</sup> /d
<b>BOD<sub>5</sub></b>	Influent	80 mg/L
	Effluent	20 mg/L
<b>NH<sub>3</sub>-N</b>	Influent	45 mg/L
	Effluent	5 mg/L

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