Town of Redvers – Water Treatment Plant Update -April 9, 2026

WHY THIS PROJECT MATTERS

The Town of Redvers is moving forward with a *mandatory upgrade* to our Water Treatment Plant.

This project is required by the Water Security Agency to ensure our drinking water meets provincial safety standards. Without this upgrade, the Town would not be in compliance and could not continue to operate our water system as is.

PROJECT OVERVIEW

- Contractor: CCR Construction Ltd. (Regina)
- Construction Start: May 2026
- Estimated Completion: Late Fall / Early Winter 2027
- Location: Existing plant site (expanding west)

WHAT IS BEING BUILT?

- A new, modern water treatment plant
- Advanced Reverse Osmosis (RO) system with greensand treatment
- Underground treated water storage
- Automated system with backup generator
- Bulk water fill station for public use
- Backup generator at the Recreation Centre (emergency use)

Note: The current water tower will be taken out of service but remain as a community landmark.

WHY THE UPGRADE IS NEEDED

- Current system does not meet provincial standards
- Issues with manganese, iron, and ammonia in raw water
- Required by the province to ensure safe drinking water

PROJECT TIMELINE -HOW WE GOT HERE

- 2020: Initial estimate – $4.6M
- 2020–2022: Well upgrades, licensing, and planning
- 2022: Project estimate updated to $6.1M (grant submitted)
- Feb 2024: Funding approved through ICIP
- 2024: Pilot project completed → new treatment method required
- 2025: Design finalized and tender issued
- Jan 2026: Bids received
- March 2026: Contractor selected

PROJECT COST BREAKDOWN

Construction Costs

- Lowest tender: $7.7M

Additional Costs

- Engineering: $622,000
- Pilot Project: $62,000
- Provincial Sales Tax: $465,000
- Contingency (10%): $831,000

Total Project Cost -$9.7 Million

WHY DID COSTS INCREASE?

Originally estimated at $6.1M, costs increased due to:

- Inflation and rising construction costs
- More advanced treatment system required
- Updated engineering and design
- Market conditions and contractor pricing

FUNDING THE PROJECT

Secured Funding

- Federal/Provincial ICIP Grant: $4.5M

Shortfall

- Remaining amount: up to $4.77M

WHAT WE HAVE DONE

- Applied for additional funding (declined)
- Contacted provincial and federal officials
- Requested PST exemption (pending)
- Exploring new funding programs
- Secured financing approval for remaining costs

WHAT THIS MEANS FOR RESIDENTS

Utility Rate Changes

To cover costs, the Town must increase the Infrastructure Fee:

- Increase: *$50/month ($150/quarter)*

What You Get

- Base water usage increasing from:
  - *2,000 → 3,000 gallons/month*
  - *6,000 → 9,000 gallons/quarter included*

Even with this increase, Redvers will remain competitive with other communities in the region.

LOOKING AHEAD

- New plant will ensure safe, reliable water for decades
- Community will have modern infrastructure
- Recreation Centre will serve as an emergency hub during outages

QUESTIONS & FURTHER INFORMATION

- 📲Visit our Website at **www.redvers.ca**
- 🎶@redverssask on Instagram
- 😎@townofredvers on TikTok
- 📽️@redverssask on YouTube
- 👍Like our Facebook Page to stay in-the-know https://www.facebook.com/townofredvers
- **QR Code:**

Contact the Town of Redvers Office Monday – Friday 10:00AM-4:30PM
306-452-3533, email tricia@townofredvers.ca

TOWN OF Redvers SASKATCHEWAN

Water Treatment Plant Upgrade – Frequently Asked Questions

COSTS & BILLING

Why are residents responsible for the additional costs?
While the Town secured significant funding through the ICIP program, it was based on earlier cost estimates. Due to inflation, updated design requirements, and higher construction costs, the total project cost increased. Unfortunately, additional government funding is not currently available, so the remaining costs must be covered locally to complete this mandatory project.

Will my taxes increase as well?
At this time, the increase is being applied to the utility infrastructure fee only, not property taxes.

When does the $50/month increase start and how long will it be in place?
The increase will start as of July 1, 2026 and will remain in place for the duration of the loan repayment period. If additional funding is secured or the loan is paid down faster, this could be reassessed in the future.

Can the Town pay off the loan early?
Yes. If additional funding becomes available or financial conditions improve, the Town can explore early repayment options to reduce long-term costs.

What happens if interest rates increase?
The Town has completed financial planning to ensure it can manage repayment even if rates fluctuate. We are working with our financial institution to secure the most stable and predictable terms possible.

Are businesses paying the same increase as residents?
Yes. The infrastructure fee applies to all utility users, including residential and commercial properties.

Are we still looking for funding?
Yes. The Town continues to explore all available options to reduce costs.

PROJECT DECISIONS

Why was Reverse Osmosis (RO) chosen?
A pilot study showed that other treatment methods would not adequately remove minerals such as manganese, iron, and ammonia. RO with a greensand blend was determined to be the most effective and reliable solution to meet provincial standards.

Could the project have been scaled down to reduce costs?
No. The system must meet strict regulatory requirements. Reducing the scope would risk non-compliance and could compromise water safety.

Did the Town consider other options, like partnering with another community?
Options were explored, but due to location, infrastructure, and regulatory requirements, upgrading our existing system is the most practical and cost-effective solution.

Were all funding opportunities explored?
Yes. The Town has applied for additional funding, contacted provincial and federal representatives, and continues to explore new programs as they become available.

Why weren't these higher costs known earlier?
Earlier estimates were based on preliminary designs and market conditions at the time. Final costs were only confirmed after detailed engineering, pilot testing, and the competitive tender process.

CONSTRUCTION & TIMELINE

Will there be disruptions to water service?
The goal is to maintain continuous service throughout construction. Any planned disruptions will be communicated well in advance.

Will water quality change during construction?
No. The existing system will remain in operation until the new plant is fully functional.

What happens if the project goes over budget again?
A contingency has been built into the budget, and the contract includes controls to limit cost overruns. The Town will closely monitor all expenses.

Is the contractor locked into a fixed price?
Yes. The project was awarded through a competitive tender process with defined pricing to reduce risk.

How will the Town ensure the project stays on schedule?
The project will be overseen by the Town and engineering consultants, with regular progress reviews and contractor accountability.

WATER QUALITY & OPERATIONS

Will the taste or hardness of the water change?
Residents may notice improvements in taste and overall water quality, as the new system removes more impurities.

Will this fix current water issues?
Yes. The new system is specifically designed to address existing concerns with minerals and water quality.

Is Reverse Osmosis safe?
Yes. RO is a widely used and proven technology for producing safe, high-quality drinking water.

Will water pressure change?
No. The system is designed to maintain current water pressure levels.

Will there be water restrictions?
At this time we do not anticipate water restrictions, however constant consultation with our engineer and water security officer will be ongoing throughout the project.

FAIRNESS & COMPARISONS

How do our rates compare to other communities?
Even with the increase, Redvers will remain among the more affordable communities in the region for utility costs.

Why prioritize this project over others?
This project is not optional, it is required to meet provincial drinking water standards and protect public health.

Has the Town looked at reducing other costs first?
Yes. The Town has carefully reviewed finances and continues to manage operations responsibly while minimizing impacts to residents.

RISK & ACCOUNTABILITY

Is this project optional?
No. It is mandated by the province.

Can the project be delayed?
No. Delays would risk non-compliance and public health concerns.

What happens if we don't proceed?
The Town would be out of compliance with provincial regulations, which could result in serious consequences, including restrictions on water use or system operation.

Who is overseeing the project?
The project is managed by Town Administration, Town Foreman and Council with oversight from engineering professionals and regulatory authorities.

Will residents receive updates?
Yes. The Town is committed to providing regular updates throughout the project.

What is the worst-case financial scenario?
The Town has planned for the full borrowing amount and confirmed it can meet repayment obligations without impacting essential services.

Will this affect other Town services?
No. Financial planning ensures that core services will continue without disruption.

FUTURE PLANNING

Will this prevent future upgrades?
This upgrade positions the Town well for the future and reduces the likelihood of major water-related upgrades in the near term.

How long will the new plant last?
The new facility is expected to serve the community for approximately 30-40 years with proper maintenance.

Does this support future growth?
Yes. The system is designed to meet current needs and accommodate future growth.

Will this improve emergency preparedness?
Yes. Backup generators and improved infrastructure will ensure water service during power outages and provide a community emergency hub.

QUESTIONS & FURTHER INFORMATION

📲Visit our Website at **www.redvers.ca**

🎣@redverssask on Instagram

😎@townofredvers on TikTok

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QR Code:

Contact the Town of Redvers Office Monday – Friday 10:00AM-4:30PM
306-452-3533, email tricia@townofredvers.ca

TOWN OF Redvers SASKATCHEWAN

UTILITY RATES COMPARISON -March 2026 -with existing $50 Infra Fee

**Rates in columns water & sewer are based on 2,000 gallons per quarter*

COMMUNITY	WATER	SEWER	INFRA FEE	TOTAL MONTHLY	TOTAL PER QUARTER
1	$ 23.40	$ -	$ 15.00	$ 38.40	$ 115.20
2	$ 20.00	$ 20.00	$ 10.00	$ 50.00	$ 150.00
3	$ 27.73	$ 14.33	$ 15.00	$ 57.06	$ 171.18
4	$ 29.62	$ 28.80	$ -	$ 58.42	$ 175.26
REDVERS	$ 28.33	$ 14.17	$ 16.67	$ 59.17	$ 177.51
6	$ 24.56	$ 36.43	$ -	$ 60.99	$ 182.97
7	$ 13.34	$ 20.00	$ 30.00	$ 63.34	$ 190.02
8	$ 22.56	$ 7.50	$ 40.80	$ 70.86	$ 212.58
9	$ 20.83	$ 20.63	$ 33.33	$ 74.79	$ 224.37
10	$ 35.56	$ 40.00	$ -	$ 75.56	$ 226.68
11	$ 58.82	$ -	$ 28.25	$ 87.07	$ 261.21
12	$ 43.85	$ 42.65	$ 10.00	$ 96.50	$ 289.50
13	$ 51.88	$ 26.77	$ 33.35	$ 112.00	$ 336.00
14	$ 43.33	$ 50.00	$ 20.00	$ 113.33	$ 339.99
15	$ 10.50	$ 10.50	$ 95.00	$ 116.00	$ 348.00
AVERAGE				**$ 75.57**	**$ 226.70**

UTILITY RATES COMPARISON -March 2026 -with increase to $200 Infra Fee

COMMUNITY	WATER	SEWER	INFRA FEE	TOTAL MONTHLY	TOTAL PER QUARTER
1	$ 23.40	$ -	$ 15.00	$ 38.40	$ 115.20
2	$ 20.00	$ 20.00	$ 10.00	$ 50.00	$ 150.00
3	$ 27.73	$ 14.33	$ 15.00	$ 57.06	$ 171.18
4	$ 29.62	$ 28.80	$ -	$ 58.42	$ 175.26
5	$ 24.56	$ 36.43	$ -	$ 60.99	$ 182.97
6	$ 13.34	$ 20.00	$ 30.00	$ 63.34	$ 190.02
7	$ 22.56	$ 7.50	$ 40.80	$ 70.86	$ 212.58
8	$ 20.83	$ 20.63	$ 33.33	$ 74.79	$ 224.37
9	$ 35.56	$ 40.00	$ -	$ 75.56	$ 226.68
10	$ 58.82	$ -	$ 28.25	$ 87.07	$ 261.21
11	$ 43.85	$ 42.65	$ 10.00	$ 96.50	$ 289.50
REDVERS	$ 28.33	$ 14.17	$ 66.66	$ 109.16	$ 327.48
13	$ 51.88	$ 26.77	$ 33.35	$ 112.00	$ 336.00
14	$ 43.33	$ 50.00	$ 20.00	$ 113.33	$ 339.99
15	$ 10.50	$ 10.50	$ 95.00	$ 116.00	$ 348.00
AVERAGE				**$ 78.90**	**$ 236.70**

The estimated costs to complete the upgrades described are as follows:

WATER TREATMENT PLANT UPGRADES ESTIMATED CAPITAL COSTS	
Item	**Estimated Cost**
Raw Water Well(s):	
Hydrogeologists	$50,000
Well Development and Completion	175,000
Electrical / Controls	50,000
Site Works	50,000
Raw Water Supply Main	25,000
Subtotal	**$350,000**
Water Treatment Plant:	
General Requirements	$350,000
Demolition and Temp. Water Supply	75,000
Treatment Equipment	850,000
Mechanical	600,000
Electrical	400,000
Controls	250,000
Ventilation	50,000
Generator and Transfer Switch	300,000
Building Modifications	275,000
Miscellaneous	100,000
Subtotal	**$3,250,000**
Engineering and Contingency	750,000
Total Estimated Capital Cost	**$ 4,350,000**

We trust this information meets your needs at this time. If you have any questions or require further information, please do not hesitate to contact our office.

Yours truly,

BCL ENGINEERING LTD.

K. J. Traves, P. Eng.

Based on the above project scope, the estimated project costs are as follows:

Water Treatment System Upgrades	
Item	**Estimated Cost**
Facility Expansion	$1,750,000
Biological-Membrane System	1,250,000
Mechanical and Pumping	800,000
Electrical and Controls	500,000
Emergency Power Systems	350,000
Subtotal - Construction	**$4,650,000**
Engineering	580,000
Contingency	580,000
Total Estimated Project Cost	**$5,810,000**

We trust this provides the information required at this time. Should you have any questions, please do not hesitate to contact our office.

Respectfully submitted,

BCL ENGINEERING LTD.

T. T. Braun, P.Eng.

BCL ENGINEERING LTD.

November 26, 2024
File #274.04-2

Town of Redvers
25 Railway Avenue
Redvers, SK
S0C 2H0

Attention: **Ms. Tricia Pickard, Administrator**

Re: **Town of Redvers**
Water Treatment Plant
Pilot Study Results and Summary

As discussed, we are pleased to provide the following pilot results summary and potential upgrade options for the Town's consideration. This letter report briefly summarizes the results of the recent biological filtration pilot study and the direct feed membrane trial. This letter also analyzes the capital and operational costs of a bio-membrane treatment system, compared to a direct feed membrane. The option of a manganese greensand by-pass for a treated water blend is also discussed as a potential option for natural pH balancing, optimization of power consumption, decreased membrane use, and reduction of calcite used in the re-mineralization process.

The biological pilot study began June 13th, 2024 and extended a period of 16 weeks. The final samples were retrieved October 18th, 2024. Delco's pilot study results are attached for reference. The pilot study concluded that the biofiltration is effective in removing both iron and ammonia to levels below all *Canadian Drinking Water Quality Guidelines* (CDWQG), realizing 95.6% to 99.1% removal of each constituent, measured post bio-filter #2.

The pilot study was unsuccessful in manganese removal, realizing only 3% removal at times and negligible removal throughout the majority of the pilot study. The study did, however, confirm that the membrane treatment unit (MTU) was able to remove 100% of the manganese as intended. The MTU was introduced in post-bio-filtration and direct feed scenarios.

It is important to note that biofiltration is intended to remove iron, ammonia and manganese to increase the expected longevity of the membrane units. The membrane treatment unit however, can remove all these constituents without any pre-filtration.

In summary, an overview of the available options and related costs is as follows:

- biological filters followed by membrane treatment and calcite contactors;
- direct feed membrane with calcite contactors;
- direct feed membrane with manganese greensand filter by-pass, reduced calcite contactor requirement.

The capital cost of each option is as follows:

Estimated Capital Costs			
Item	**Bio-Membrane**	**Direct Feed Membrane**	**Membrane / Greensand Blend**
Facility Expansion			
Reservoir Expansion	15 m x 15 m	15 m x 8 m	15 m x 10 m
Building Expansion	15 m x 22.7 m	15 m x 16 m	15 m x 18 m
Existing Facility Renovation	7.5 m x 15 m	7.5 m x 15 m	7.5 m x 15 m
Subtotal	**$1,773,000**	**$1,140,000**	**$1,320,000**
Treatment Equipment			
3,048 mm Bio-Filtration Vessel (2)	$860,000	n/a	n/a
MTU Each Rated for 6.0 L/s (2)	630,000	630,000	630,000
1,585 mm dia. Calcite Contactors (2)	250,000	250,000	250,000
1,500 mm dia. Manganese Greensand Filter (2)	-	-	85,000
Subtotal (per Delco Proposal)	**$1,740,000**	**$880,000**	**$965,000**
Mechanical			
Treatment System Overhead (15%)	$260,000	$130,000	$155,000
Treatment System Devices	200,000	100,000	120,000
Treatment System Connections	200,000	100,000	125,000
Distribution System	150,000	150,000	150,000
Domestic Plumbing and Fixtures	50,000	50,000	50,000
Heating and Ventilation	50,000	50,000	50,000
Subtotal	**$910,000**	**$580,000**	**$650,000**
Electrical and Process			
Building Automation	$250,000	$150,000	$175,000
Treatment Devices	200,000	150,000	175,000
Treatment System Connections	50,000	25,000	25,000
Electrical Distribution	415,000	415,000	415,000
Standby Power and Transfer Switch	110,000	110,000	110,000
Lighting and Fixtures	65,000	65,000	65,000
Subtotal	**$1,090,000**	**$915,000**	**$965,000**
General Conditions			
Site Work and Underground	$300,000	$300,000	$300,000
Bonding and Insurance (5%)	275,000	175,000	195,000
Contractor Fees (20%)	1,100,000	700,000	780,000
Subtotal	**$1,675,000**	**$1,175,000**	**$1,275,000**
Total Estimated Project Cost	**$7,188,000**	**$4,690,000**	**$5,175,000**

As noted, the implementation of a bio-membrane system realizes an increased capital investment due to the filter vessels, air injection systems, additional reservoir and filtered water chamber, increased mechanical installations, and an extended building footprint to house the treatment equipment. However, the biological filter will remove nearly all iron from the water prior to the membrane treatment unit, increasing the longevity of the membranes.

Delco provided an overview of current direct feed membrane systems in place, with a detailed history of recorded membrane replacement. - Redacted.

Current Direct Feed Membrane Systems				
Location / Operator	**In-Service Date**	**Membrane Count**	**Membrane Replacement History**	**Average Time In Service**
	2011	70	2012 - 6 2016 - 47 2020 - 28 2023 - 23	8.72 years
	2008	56	2010 - 8 2011 - 8 2012 - 8 2013 - 20 2014 - 20 2015 - 8 2018 - 8 2019 - 8 2022 - 16 2023 - 24	6.99 years
	2014	84	2014 - 28 2015 - 14 2020 - 14 2021 - 14	7.1 years
	2014	220	2020 - 23	9+ years
	2012	50	2018 - 30 2021 - 10 2022 - 40	7.5 years
	2018	72	None at this time.	6+ years

Delco's experience in biofiltration extends back to 2016, with approximately 8 years of data available. As such, in most instances, the plants have not likely replaced any membranes. However, it is also important to note that customers may not have contacted Delco for any replacement membranes, as other venders and suppliers are available, though this is unlikely.

- Redacted

Current Bio-Membrane Systems			
Location / Operator	**In-Service Date**	**Membrane Count**	**Membrane Replacement History**
	2018	30	None known at this time.
	2019	70	None known at this time.
	2017	30	2021 - 3 2023 - 21
	2019	12	No replacements required since start up.
	2017	50	None known at this time.

The 20 year lifecycle cost analysis is provided below to aid the Town in selection of treatment equipment. The summary details the estimated cost per component. Please note that costs considered incidental to the operation of a water treatment plant and not specific to each process, such as operations staff, building maintenance, etc., are not included in this study. The consumption rate is based on 500,000 L/day or 182,500 m^3/year, consistent with the 10 year projection for the Town of Redvers. For the membrane / greensand option, it is assumed that the treated water will be blended at a rate of 85% membrane permeate and 15% from the manganese greensand filters, which will provide good quality water and very effective pH balancing and re-mineralization.

Process Estimated Lifecycle Costs	
Power Consumption	
Bio-Filters	$0.01894/$m^3$
Annual	$3,456
MTUs	$0.05420/$m^3$
Annual	$9,891
Facility (/year)	$6,570
Chemicals	
Anti-Scalant	$0.0647/$m^3$
HCL	$0.0004/$m^3$
NaOH	$0.0423/$m^3$
NaCl	$0.0137/$m^3$
Subtotal	**$0.1247**/$m^3$
Annual	$22,630
Calcite	
Per Bag	$51
Annual Direct Fee (estimate 52 bags / year)	$2,652
Annual By-Pass (estimate 26 bags / year)	$1,326
Membrane Replacement	
With Pre-Treatment	12 years
Annual Replacement Allowance with Pre-Treatment	$5,833
Direct Feed	7 years
Annual Replacement without Pre-Treatment	$10,000

Annual Cost Summary			
Item	**Bio-Membrane**	**Direct Feed Membrane**	**Membrane / Greensand Blend**
Power	$19,917	$16,461	$16,461
Chemical	22,630	22,630	19,235
Calcite	2,652	2,652	1,127
Membrane Replacement	5,833	10,000	10,000
Annual Operational Costs	**$51,005**	**$51,743**	**$46,823**
20 Year Estimated Costs (incl. 2% inflation)	**$1,220,000**	**$1,238,000**	**$1,138,000**

As shown, both the bio-membrane treatment and membrane / manganese greensand blend realize the lowest long term operation costs. However, over a 20 year projection there is only a $100,000 difference between all three options.

Based on the above, we recommend proceeding with direct feed membrane with manganese greensand blend, at an estimated construction cost of $5,175,000. The addition of a manganese greensand system remains with the project budget. The advantages of the blended water include the reduction of the required pH adjustment, increased water stability, and maintaining some characteristics of the existing water supply. While the capital costs are increased by $485,000, they are partially offset by the annual operational savings, and greatly reduces potential issues within the distribution system.

We trust this meets your needs at this time. If you have any questions or require additional information, please do not hesitate to contact our office. We look forward to advancing this important community project.

Yours truly,

BCL ENGINEERING LTD.

K. J. Traves, P.Eng.

BCL ENGINEERING LTD.

January 27, 2026
File #274.04-2

Town of Redvers
25 Railway Avenue
Redvers, SK
S0C 2H0

Attention: Ms. Tricia Pickard, CAO

Re: Water Treatment Plant Upgrade
Tender Results

Tenders were received from six contractors for the above project and were opened in our office at 2:00 pm, Tuesday, January 27th, 2026.

The tenders were as follows (not including taxes):

CCR Construction Ltd.	$7,715,629.99
Trans Canada Contracting Ltd.	$8,145,011
Con-Tech General Contractors Ltd.	$8,888,888
Hipperson Construction Ltd.	$9,055,829.59
C&S Builders	rejected
PCL Construction Mgmt. Inc.	rejected

All of the Tenderers provided the necessary consent of surety and bid bond. One Tenderer presented a conditional bid, which was deemed "informal" and rejected. Another Tender was rejected due to not attending the mandatory site meeting.

As such, we recommend that the Town of Redvers proceed with awarding the contract for the Water Treatment Plant Upgrade to CCR Construction Co. Ltd., for a tendered price of $7,715,629.99, plus taxes.

Upon receipt of your authorization, we will prepare the necessary documents for execution of the Contract. If you have any questions, please do not hesitate to contact our office.

Yours truly,

BCL ENGINEERING LTD.

K. J. Traves, P.Eng.

200 – 302 Wellman Lane / Saskatoon, SK S7T 0J1 / T. (306) 477-2822 / F. (306) 955-3755 / www.bcl-eng.ca

BCL ENGINEERING LTD.

TOWN OF REDVERS
Water Treatment Plant Upgrade

TENDER SUMMARY

Job #274.04
January 27, 2026

ITEM	DESCRIPTION	UNIT	QUANT.	CCR Construction Ltd.		TransCanada Contracting Ltd.		Con-Tech General Contractors Ltd.		Hipperson Construction Ltd.	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1.	**WATER TREATMENT PLANT**										
.01	Water Treatment Plant and Storage Reservoir	Lump	1	5,689,574.49	5,689,574.49	6,006,323.00	6,006,323.00	6,349,738.00	6,349,738.00	6,140,967.33	6,140,967.33
.02	Water Treatment Equipment	Lump	1	1,431,328.00	1,431,328.00	1,431,328.00	1,431,328.00	1,680,000.00	1,680,000.00	2,046,613.50	2,046,613.50
	SUBTOTAL				**$7,120,902.49**		**$7,437,651.00**		**$8,029,738.00**		**$8,187,580.83**
2.	**UNDERGROUND UTILITIES**										
.01	300 mm dia. PVC Water Main	Lin.M.	70	730.00	51,100.00	850.00	59,500.00	1,100.00	77,000.00	1,060.43	74,230.10
.02	300 mm dia. Gate Valve	Each	3	7,650.00	22,950.00	12,000.00	36,000.00	14,000.00	42,000.00	15,308.46	45,925.38
.03	Connection to Existing 300 mm dia. Water Main	Each	2	3,500.00	7,000.00	12,500.00	25,000.00	11,000.00	22,000.00	11,481.35	22,962.70
.04	Remove Existing Tee at Water Tower	Lump	1	5,900.00	5,900.00	15,000.00	15,000.00	7,000.00	7,000.00	7,654.23	7,654.23
.05	Cap and Abandon 200 mm Raw Water Main	Lump	1	3,700.00	3,700.00	8,500.00	8,500.00	7,000.00	7,000.00	7,654.23	7,654.23
.06	200 mm dia. PVC Sewer Main	Lin.M.	35	670.00	23,450.00	500.00	17,500.00	940.00	32,900.00	1,020.56	35,719.60
.07	250 mm dia. PVC Sewer Main	Lin.M.	15	910.00	13,650.00	800.00	12,000.00	1,060.00	15,900.00	1,148.13	17,221.95
.08	1,200 mm dia. Sanitary Manholes	Vert.M.	6.0	7,200.00	43,200.00	9,750.00	58,500.00	8,200.00	49,200.00	8,929.94	53,579.64
.09	100 mm dia. PVC Sanitary Sewer Service	Lin.M.	10	300.00	3,000.00	550.00	5,500.00	590.00	5,900.00	637.85	6,378.50
.10	Connection to Surge Chamber	Each	2	1,820.00	3,640.00	20,000.00	40,000.00	16,000.00	32,000.00	5,102.82	10,205.64
	SUBTOTAL				**$177,590.00**		**$277,500.00**		**$290,900.00**		**$281,531.97**
3.	**MISCELLANEOUS ITEMS**										
.01	Straight Faced Curb and Gutter	Lin.M.	70	180.00	12,600.00	368.00	25,760.00	760.00	53,200.00	829.21	58,044.70
.02	River Rock and Boulder Placment	Sq.M.	250	60.00	15,000.00	80.00	20,000.00	120.00	30,000.00	127.57	31,892.50
.03	Traffic Gravel	Cu.M.	450	71.00	31,950.00	65.00	29,250.00	140.00	63,000.00	153.08	68,886.00
.04	Crushed Rock	Cu.M.	250	116.00	29,000.00	130.00	32,500.00	190.00	47,500.00	204.11	51,027.50
.05	300 mm Base Course	Sq.M.	925	70.00	64,750.00	25.00	23,125.00	80.00	74,000.00	82.92	76,701.00
.06	Geotextile	Sq.M.	925	3.50	3,237.50	6.00	5,550.00	6.00	5,550.00	6.38	5,901.50
.07	Asphalt Repairs c/w Subbase and Base Course	Sq.M.	200	120.00	24,000.00	135.00	27,000.00	210.00	42,000.00	318.93	63,786.00
.08	Community Centre Standby Generator	Lump	1	176,600.00	176,600.00	206,675.00	206,675.00	193,000.00	193,000.00	170,477.59	170,477.59
.09	Tools and Equipment	Prime	1	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
.10	Material Testing	Prime	1	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
.11	Utility	Prime	1	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
	SUBTOTAL				**$417,137.50**		**$429,860.00**		**$568,250.00**		**$586,716.79**
	Subtotal				**$7,715,629.99**		**$8,145,011.00**		**$8,888,888.00**		**$9,055,829.59**
	Lump Adjustment										
	TOTAL SCHEDULE OF PRICES				**$7,715,629.99**		**$8,145,011.00**		**$8,888,888.00**		**$9,055,829.59**

CCR Construction ltd

Town of Redvers Water Treatment Plant Construction Schedule

(assumed award Date: February 23, 2026) — Awarded March 24, 2026
schedule to be revised.

Duration: 18 Months (Feb 23, 2026 → Aug 23, 2027)

(18 months = 546 days)

PHASE 1 — Mobilization, Permits & Submittals

Feb 23, 2026 → Mar 23, 2026 (Month 0–1)

- Mobilize within 2 weeks of award
- Site setup & temporary services
- Shop drawings (initial wave)
- Utility coordination
- Detail Construction schedule submission (within 3 weeks of award)

PHASE 2 — Site Prep, Earthwork & Underground Utilities

Mar 23, 2026 → Jun 23, 2026 (Months 1–4)

- Strip & stockpile topsoil
- Excavation for reservoir
- Install 300 mm watermain, valves, tees
- Install 200/250 mm sanitary sewer & manholes
- Abandon existing raw watermain
- Install truck fill underground services
- Place structural fill & compact

PHASE 3 — Reservoir Construction (417 m^3 Concrete Tank)

May 23, 2026 → Nov 23, 2026 (Months 3–9)

- Form & pour bottom slab
- Form & pour walls
- Install columns, waterstops, manholes
- Pour top slab
- Install reservoir connection piping

- Backfill & restore around tank

PHASE 4 — WTP Building Expansion (267 m²)

Aug 23, 2026 → Feb 23, 2027 (Months 6–12)

- Slab-on-grade interior areas
- Structural works (columns, curbs, loading dock)
- Building envelope (roofing, siding, windows, doors)
- Interior framing & finishes (FRP, plywood, drywall)
- Install overhead doors

PHASE 5 — Mechanical Systems Installation

Oct 23, 2026 → Apr 23, 2027 (Months 8–14)

- Greensand & membrane system installation
- CIP system & chemical dosing skids
- Pumps (distribution, backwash, future pads)
- Stainless steel & SCH80 process piping
- Truck fill heating system & glycol slab work
- HVAC installations (unit heaters, fans, ducting)

PHASE 6 — Electrical & Controls Installation

Nov 23, 2026 → May 23, 2027 (Months 9–15)

- Electrical room (MCCs, panels)
- Generator & ATS
- Conduits, cable trays, lighting, safety circuits
- Heat trace
- PLC programming (WTP & Well 5 controller)
- SCADA/HMI programming & integration

PHASE 7 — Existing Plant Modifications & Repurposing

Feb 23, 2027 → May 23, 2027 (Months 12–15)

- Demolition of obsolete equipment
- Reconfigure building interior for new functions
- Tie-in existing reservoir and systems

- Remove water tower from service
- Maintain full water supply to community

PHASE 8 — Start-up, Testing & Commissioning

May 23, 2027 → Jul 23, 2027 (Months 15–17)

Startup:

- Flush & swab raw mains
- 7-day consecutive equipment run
- Vendor startup inspections

Commissioning:

- Minimum 2 days with all vendors on-site
- System performance verification
- SCADA, instrumentation, and alarm testing

Training:

- Commissioning-based training
- Additional 2 days of operator training during warranty period

PHASE 9 — Site Restoration, Cleanup & Close-Out

Jun 23, 2027 → Aug 23, 2027 (Months 16–18)

- Final grading & landscaping
- Curb & gutter, base and aqsphalt repairs
- Boulder placement, river rock
- Deficiency correction
- O&M manuals (3 hard copies + PDF)
- Final inspections
- Substantial & final completion documentation

Project Turnover August 23, 2027

Investing in Canada Infrastructure Program

Detailed Cost Estimate

Applicant Name: Town of Redvers

Project Title: Water Treatment Plant & Process Upgrade

Green Infrastructure - Increased access to potable water;

Project Stream / Outcome:

Cost Estimate Developed By: BCL Engineering Ltd

Date of Cost Estimate (DD-MM-YYYY): Oct. 20, 2022

Cost Estimate Class: Class C: Estimates at the "Preliminary Design" stage, and may be referred to as pre-tendering estimates / +/- 15% tc

ELIGIBLE COSTS

	Description	Quantity	Per Unit Amount	Total Cost
Project Planning				
For example, costs associated with environmental assessment, aboriginal consultation, climate lens assessments, community employment benefit plans				
	Planning Sub-Total:			**$0**
Design / Engineering				
	Detailed design , tendering, general and onsite engineering			580,000
	Design / Engineering Sub-Total:			**$580,000**
Construction / Materials				
Items should reflect the major components in your project . Add lines as necessary.	Reservoir/foundation construction			1,200,000
	Building expansion/rehabilitation			550,000
	Water treatment process equipment			1,250,000
	Distribution pumping equipment			300,000
	Heat and ventilation			80,000
	Piping, valves, general mechanical			420,000
	Electrical distribution components			250,000
	Controls and instrumentation			250,000
	Emergency power			100,000
	General electrical			250,000
	Construction / Materials Sub-Total:			**$4,650,000**
Other Eligible Costs				
For example (communications, testing)				
	Other Eligible Costs Sub-Total:			**$0**
Contingency				
	20% Contingency			930,000
	Contingency Sub-Total:			**$930,000**
	TOTAL ELIGIBLE COSTS*:			**$6,160,000**

INELIGIBLE COSTS

	Description	Quantity	Per Unit Amount	Total Cost
Land Acquisition Cost				
Leasing Land, Building and Other Facilities				
Financing Charges				
Legal Fees				
In-kind Contribution				
Tax Rebate				
Works already completed (Add lines as needed): Costs Incurred before Project approval, and any and all expenditures related to contracts signed prior to Project approval, this includes costs incurred or contracts awarded for planning and design.	Replacement Water Well Construction and Existing Water Well Rehabilitation Project			508,000
Other	Pre-design studies			
	TOTAL INELIGIBLE COSTS*:			**$508,000**

TOTAL GROSS PROJECT COSTS (Eligible + Ineligible)*:	**$6,668,000**

*Totals must match totals in the Project Costs section of the Application Form.

Cost Estimate Comments

nsulting with other municiplaities and during the SUMA Regional Meeting, it was indicated to be between 20%-25%. With the daily change in product pricing and high demand of products, incr

Investing in Canada Infrastructure Program

Detailed Cost Estimate

Applicant Name: Town of Redvers
Project Title: Water Treatment Plant & Process Upgrade
Green Infrastructure - Increased access to potable water;

Project Stream / Outcome:

Cost Estimate Developed By: BCL Engineering Ltd
Date of Cost Estimate (DD-MM-YYYY): 09/03/2026
Cost Estimate Class: Class C: Estimates at the "Preliminary Design" stage, and may be referred to as pre-tendering estimates / +/- 15% tc

ELIGIBLE COSTS

	Description	Quantity	Per Unit Amount	Total Cost
Project Planning				
For example, costs associated with environmental assessment, aboriginal consultation, climate lens assessments, community employment benefit plans				
	Planning Sub-Total:			**$0**
Design / Engineering				
	Detailed design , tendering, general and onsite engineering -Expenses to Date			487,037
	Detailed design , tendering, general and onsite engineering -Estimated Expenses			135,513
	Design / Engineering Sub-Total:			**$622,550**
Construction / Materials				
Items should reflect the major components in your project . Add lines as necessary.	Facility Expansion -Estimated Expenses as per Tender			3,689,574
	Treatment Equipment -Estimated Expenses as per Tender			1,431,328
	Machanical -Estimated Expenses as per Tender			1,000,000
	Electrical and Process -Estimated Expenses as per Tender			1,000,000
	Underground Utilities -Estimated Expenses as per Tender			177,590
	Miscellaneous Items -Estimated Expenses as per Tender			417,138
	Pilot Project -Expenses Incurred			61,851
	6% PST			465,377
	Construction / Materials Sub-Total:			**$8,242,858**
Other Eligible Costs				
For example (communications, testing)				
	Other Eligible Costs Sub-Total:			**$0**
Contingency				
	10% Contingency			831,652
	Contingency Sub-Total:			**$831,652**
	TOTAL ELIGIBLE COSTS*:			**$9,697,060**

INELIGIBLE COSTS

	Description	Quantity	Per Unit Amount	Total Cost
Land Acquisition Cost				
Leasing Land, Building and Other Facilities				
Financing Charges				
Legal Fees				
In-kind Contribution				
Tax Rebate				
Works already completed (Add lines as needed): Costs Incurred before Project approval, and any and all expenditures related to contracts signed prior to Project approval, this includes costs incurred or contracts awarded for planning and design.	Replacement Water Well Construction and Existing Water Well Rehabilitation Project			706,000
Other	Pre-design studies			
	TOTAL INELIGIBLE COSTS*:			**$706,000**

TOTAL GROSS PROJECT COSTS (Eligible + Ineligible)*:	**$10,403,060**

*Totals must match totals in the Project Costs section of the Application Form.

Cost Estimate Comments

nsulting with other municiplaities and during the SUMA Regional Meeting, it was indicated to be between 20%-25%. With the daily change in product pricing and high demand of products, incr