



AGENDA  
SPECIAL MEETING  
OCTOBER 21, 2020

**CALL TO ORDER:**

**INTRODUCTION OF LATE ITEMS:**

- Resolution required to add late items, if any

**ADOPTION OF AGENDA:**

- Resolution to adopt the Agenda for the October 21, 2020, Special Meeting.

**NEW BUSINESS:**

Investing in Canada Infrastructure  
Program – Rural and Northern  
Communities: Funding Application for  
Community Water Supply Replacement

- Resolution required to endorse grant application

**ADJOURNMENT:**

- Resolution to adjourn the meeting at \_\_\_\_ a.m.



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**REQUEST FOR COUNCIL DECISION**

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**SUBMITTED BY:** Catherine Allaway, CAO

**DATE:** October 20, 2020

**SUBJECT:** *ICIP Rural and Northern Communities* Funding Application for Community Water Supply Replacement

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**PURPOSE:** To seek Council's endorsement of an application for funding to relocate wells

**RECOMMENDATION:**

THAT staff submit an application for grant funding application for Community Water Supply Replacement through the *Investing in Canada Infrastructure Program – Rural and Northern Communities*; and

THAT Council supports the project and commits to its share of the project, as well as cost overruns.

**ALTERNATIVES & IMPLICATIONS:**

1. **Endorse the proposal. Staff will submit the application**
2. Do not endorse the proposal. *Staff will not submit an application.*

**ANALYSIS:**

- A. Background:** The Investing in Canada Infrastructure Program – Rural and Northern Communities (ICIP–RNC) grant stream is currently accepting applications for capital projects that improve the quality of life in rural communities. The deadline for this intake is October 22, 2020. New Denver's existing drinking water wells are ageing, and their siting is not optimal. The proposed project will seek funding to construct new wells and decommission the existing wells.
- B. Discussion:** New Denver' #1 Well (near the Recycling Depot) and Well #2 (in Greer Park) both date to 1974 and are beyond the typical lifespan of a municipal well. Well #1 is in close proximity to existing septic systems and constrains the development of affordable housing units in the community. Well #2 is in an uncontained aquifer downgradient of development and at increased risk of contamination, and its location limits the development of vacant lands in the downtown core.

The Engineer (TRUE Consulting) and Hydrogeologist (Western Water Associates) hired by the Village have studied the situation, compared options, and recommended that two new wells be drilled near the test well created in 2011 (on the south side of Slocan Avenue, between Kootenay St. & Columbia St.), and that the current wells be decommissioned.

Total project costs are estimated at approximately \$1.6M. The joint federal-provincial ICIP–RNC grants provide 100% funding for small municipalities.

**C. Legislative Framework:** Nil

**D. Attachments:**

- Village of New Denver Water Supply Upgrades Water Supply Site Plan
- Community Water Supply Upgrade Class "C" Cost Estimate (DRAFT)

**E. Council Strategic Priority:** Improved management of water system

**F. Communication Strategy:** Nil

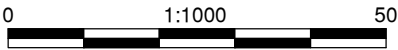
**FINANCIAL IMPLICATIONS:** The Class “C” estimates for the project are just over \$1.6M, and the full amount is eligible for funding through the ICIP–RNC program for municipalities under 5,000. The Village will be responsible for any cost overruns, to be paid from Water Reserves, Gas Tax Funds or other sources as required.

The project is not expected to result in significant changes to operating costs, although some efficiencies can be expected from a new modern system. Operating costs will be recovered through water user fees.





- LEGEND:
- PROPOSED BOUNDARY EXPANSION
  - EXISTING MUNICIPAL BOUNDARY



VILLAGE OF NEW DENVER  
WATER SUPPLY UPGRADES  
WATER SUPPLY SITE PLAN



DRAWN BY: AZ  
DATE: OCTOBER 2020

DESIGN BY: SW  
SCALE: 1:1000  
DWG NO.:  
REV:

FIG.3  
1479-041



CLASS 'C' COST ESTIMATE

OWNER: Village of New Denver  
PROJECT: Community Water Supply Upgrade  
DATE: October 19, 2020



ITEM & DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
<b>A. New Water Source Construction</b>				
1.0 Mobilization / Demobilization	LS	1	\$ 35,000.00	\$ 35,000.00
2.0 New wells construction				
2.1 Drill, develop, pump test two new water supply wells	LS	1	\$ 180,000.00	\$ 180,000.00
2.2 Supply and install submersible well pump, motor and pitless adapter	each	2	\$ 65,000.00	\$ 130,000.00
3.0 Siteworks				
3.1 Supply and install 200mm dia. PVC watermain	lm	140	\$ 250.00	\$ 35,000.00
3.2 Watermain appurtenances (fittings, bends)	LS	1	\$ 4,000.00	\$ 4,000.00
3.3 Fire hydrant assembly	LS	1	\$ 7,500.00	\$ 7,500.00
3.4 Tie in watermain to existing (includes tee, valves and coupling)	LS	1	\$ 8,000.00	\$ 8,000.00
3.5 Buried power and communication cabling to new well control building	LS	1	\$ 65,000.00	\$ 65,000.00
3.6 Surface restorations - boulevard topsoil and seed	m <sup>2</sup>	525	\$ 15.00	\$ 7,875.00
3.7 Surface restorations - grading and gravel replacement	m <sup>2</sup>	350	\$ 25.00	\$ 8,750.00
3.8 Surface restorations - asphalt road removal and replacement	m <sup>2</sup>	400	\$ 120.00	\$ 48,000.00
4.0 Construct new water supply control building				
4.1 Site clearing, grading and material placement to 200 year flood level	m <sup>3</sup>	400	\$ 50.00	\$ 20,000.00
4.2 Control building foundation preparation	m <sup>2</sup>	50	\$ 60.00	\$ 3,000.00
4.3 Construct 25 m <sup>2</sup> water supply control building (structure)	LS	1	\$ 109,000.00	\$ 109,000.00
4.4 Mechanical piping, well control valving and flow metering equipment	LS	1	\$ 56,000.00	\$ 56,000.00
4.5 Supply and install heating and ventilation equipment	LS	1	\$ 15,000.00	\$ 15,000.00
4.6 Supply and install building electrical (lights, power cables)	LS	1	\$ 35,000.00	\$ 35,000.00
4.7 Supply and install electrical and control components (transfer switch, MCP, panels)	LS	1	\$ 150,000.00	\$ 150,000.00
4.8 Wells power supply and instrumentation	LS	1	\$ 10,000.00	\$ 10,000.00
4.9 SCADA (hardware and programming), antenna and radio communications to reservoir	LS	1	\$ 40,000.00	\$ 40,000.00
5.0 Supply and install emergency power generator (diesel) c/w spill containment	LS	1	\$ 75,000.00	\$ 75,000.00
Subtotal - New Water Source Construction				\$ 1,042,125.00
<b>B. Well #1 Decommissioning</b>				
1.0 Remove and dispose buildings, floor slabs, internal components, and electrical service	LS	1	\$ 20,000.00	\$ 20,000.00
2.0 Well decommissioning per BC GWPR	LS	1	\$ 5,000.00	\$ 5,000.00
3.0 Well decommissioning specifications and closure reporting	LS	1	\$ 2,500.00	\$ 2,500.00
4.0 Siteworks				
4.1 Disconnect and cap watermains	LS	1	\$ 5,500.00	\$ 5,500.00
4.2 Surface restorations - grading and gravel replacement	m <sup>2</sup>	60	\$ 25.00	\$ 1,500.00
4.3 Surface restorations - road gravel and pavement replacement	m <sup>2</sup>	20	\$ 120.00	\$ 2,400.00
Subtotal - Well #1 Decommissioning				\$ 36,900.00
<b>C. Well #2 Decommissioning</b>				
1.0 Remove and dispose buildings, floor slabs, internal components, and electrical service	LS	1	\$ 25,000.00	\$ 25,000.00
2.0 Well decommissioning per BC GWPR	LS	1	\$ 5,000.00	\$ 5,000.00
3.0 Well decommissioning specifications and closure reporting	LS	1	\$ 2,500.00	\$ 2,500.00
4.0 Siteworks				
4.1 Disconnect and cap watermains	LS	1	\$ 5,500.00	\$ 5,500.00
4.2 Cut, cap and bury pressure relief drain pipe on lakeshore	LS	1	\$ 4,500.00	\$ 4,500.00
4.3 Surface restorations - grading, topsoil and sod replacement	m <sup>2</sup>	150	\$ 45.00	\$ 6,750.00
4.4 Surface restorations - road gravel and pavement replacement	m <sup>2</sup>	40	\$ 120.00	\$ 4,800.00
Subtotal - Well #2 Decommissioning				\$ 54,050.00
Construction Cost Subtotal:				\$ 1,133,075.00
Well Design and Construction Engineering, Source Water Protection Planning - Hydrogeological :				\$ 40,000.00
Design and Construction Engineering - Electrical :				\$ 20,000.00
Design and Construction Engineering - Structural :				\$ 10,000.00
Design and Construction Engineering - Geotechnical:				\$ 5,000.00
Design and Construction Engineering, Contract Administration - Civil :				\$ 90,000.00
Contingency Allowance (approx. 25% of Construction and Engineering):				\$ 321,925.00
Total Community Water Supply Upgrades Project Cost Estimate (not including GST):				\$ 1,620,000.00

Notes:

1. This cost estimate is considered a Class C (+/-25-40%) as defined in the APEGBC Budget Guidelines for Consulting Engineering Services: "an estimate prepared with limited site information and based on probable conditions affecting the project. It represents the summation of all identifiable project elemental costs and is used for program planning, to establish a more specific definition of client needs and to obtain preliminary project approval."