COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	Town of Nederland	
Name of Water Project	Town of Nederland Well Feasibility Study	
Grant Request Amount		**$45,394.00**
Primary Category		$45,394.00
Water Storage & Supply		
Total Applicant Match		**$19,455.00**
Applicant Cash Match		$17,055.00
Applicant In-Kind Match		$2,400.00
Total Other Sources of Funding		**$0.00**
Total Project Cost		**$64,849.00**

Applicant & Grantee Information

Name of Grantee: Town of Nederland
Mailing Address: PO Box 396 Nederland CO 80466

Organization Contact: Andrew Bliss
Position/Title: Utilities Manager
Phone: 720-574-1018
Email: andrewb@nederlandco.org

Grant Management Contact: Andrew Bliss
Position/Title: Utilities Manager
Phone: 720-574-1018
Email: andrewb@nederlandco.org

Engineering Contact: Chris Newton
Position/Title: Hydrogeologist
Phone: (303) 883-8718
Email: chris@dinatalewater.com

Description of Grantee/Applicant

No description provided

Type of Eligible Entity

- ☐ Public (Government)
- ☐ Public (District)
- ■ Public (Municipality)
- ☐ Ditch Company
- ☐ Private Incorporated
- ☐ Private Individual, Partnership, or Sole Proprietor
- ☐ Non-governmental Organization
- ☐ Covered Entity
- ☐

☐ Other

Category of Water Project

☐ Agricultural Projects
Developing communications materials that specifically work with and educate the agricultural community on headwater restoration, identifying the state of the science of this type of work to assist agricultural users among others.

☐ Conservation & Land Use Planning
Activities and projects that implement long-term strategies for conservation, land use, and drought planning.

☐ Engagement & Innovation Activities
Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website.

☐ Watershed Restoration & Recreation
Projects that promote watershed health, environmental health, and recreation.

■ Water Storage & Supply
Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap.

Location of Water Project

Latitude	39.954800
Longitude	-105.525200
Lat Long Flag	Precise coordinates: Project coordinates are readily definable and precisely define the location of the project
Water Source	Middle Boulder Creek Alluvial Aquifer
Basins	South Platte
Counties	Boulder
Districts	6-Boulder Creek

Water Project Overview

Major Water Use Type	Municipal
Type of Water Project	Study
Scheduled Start Date - Design	11/1/2024
Scheduled Start Date - Construction	

Description

To address seasonal variability of water availability and increase their water reliability in times of drought and/or contamination, the Town of Nederland intends to reestablish a decreed alluvial well on Middle Boulder Creek to supplement their raw water supply which is currently fed only by surface diversions from the creek. At times of low flow in Middle Boulder Creek, Nederland has struggled to meet their full raw water demand from the existing surface diversion, at times having to resort to using a temporary pump in the creek to meet the Town’s water needs .

Nederland’s decreed augmentation plan allows water to be taken from its surface diversion or from alluvial wells that were originally drilled in the 1960’s and do not currently have pumps and are not in suitable condition to be used at this time. To reestablish one of these wells located on Town property, Nederland first plans to install three monitoring wells within 200 feet of the decreed location, all on Town property. These monitoring wells will be used to assess whether a production well on the Town’s property can supply sufficient yield and water quality to meet the Town’s needs.

Measurable Results

	New Storage Created (acre-feet)
75	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
	New Storage Created (acre-feet)
	Length of Stream Restored or Protected (linear feet)
	Length of Pipe, Canal Built or Improved (linear feet)
	Efficiency Savings (dollars/year)
	Efficiency Savings (acre-feet/year)
	Area of Restored or Preserved Habitat (acres)
	Quantity of Water Shared through Alternative Transfer Mechanisms or water sharing agreement (acre-feet)
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
2,058	Number of Coloradans Impacted by Engagement Activity
Other	

No additional measurable results provided

Water Project Justification

Nederland currently has wells decreed in their augmentation plan which were drilled in the 1960's and do not currently have pumps and are not in suitable condition to be used at this time. It is not clear that the wells were ever directly tied into the existing water diversion system and most of the wells were located on land that is not owned by the Town nor under a recorded easement with the Town. At times of low flow in Middle Boulder Creek, Nederland has struggled to meet their full raw water demand from the existing surface diversion, at times having to resort to using a temporary pump in the creek to meet the demand at the treatment plant. This project will provide Nederland with ability to conjunctively manage use of both surface water and groundwater to meet their supply gap, which is expected to grow with future population growth.

Section 4 of Volume 1 of the updated South Platte Basin Implementation Plan (BIP) lays out several updated goals for Basin which Nederland's project will help meet. Goal number 2 of the BIP is to "Maximize development of native South Platte supplies." This project will specifically meet goal number 2 with strategy 2.B, "develop methods and projects to more effectively use available groundwater supplies to supplement existing developed supplies and/or to provide additional yield and resilience using conjunctive surface/groundwater storage strategies." By developing groundwater supplies to supplement existing surface water supplies, Nederland will be better able to fully utilize the raw water supplies available in the basin to meet the needs of the growing population.

Additionally, Section 6 of the BIP lays out the strategic vision for the future, with point number 1 being to meet the municipal supply gap. Particularly due to the lack of irrigated area within the Town, water use in Nederland is driven by population, which is projected to continue growing. Given the past issues caused by low flow in Middle Boulder Creek, the project will help meet the existing supply gap as well as provide an additional source of water to meet projected future supply and demand gaps with the continued growth of the Town's population.

Nederland plans to install three monitoring wells within 200 feet of the location decreed for one of the wells that is located on Town property. These monitoring wells will be used to assess whether a production well on the Town's property can supply sufficient yield and water quality to meet the Town's needs and the goals and strategies laid out in the BIP.

Related Studies

Upstream Storage and Raw Water Supply Alternatives Analysis – Study began in late 2022 - The Town is pursuing development of additional raw water storage to meet the needs of the treatment plant.

Taxpayer Bill of Rights
No Tax Bill of Rights provided