



Coal Creek Utility District

Introduction

Coal Creek Utility District’s water and sewer service areas are approximately 5.5 and 4.7 square miles, respectively. The service areas generally extend from the City of Bellevue at Southeast 69th street on the north, the City of Newcastle and City of Renton boundaries on the south, Cougar Mountain Regional Wildland park on the east and Lake Washington on the west. The district serves the City of Newcastle and a small portion of the City of Renton and unincorporated King County.

Development Trends

The average annual growth rate in population over the next 20 years is approximately one percent a year and the average growth rate for employment is estimated to be nearly three percent a year. In the last five years residential developments have encroached on parts of our known coal mine areas. Several of our water and sewer infrastructures may be at risk of collapse or severe separation. Growth in areas with known coal mines increases this risk.

Jurisdiction Point of Contact:

Name: Dan Gravelle
Title: Water/Sewer Technician
Entity: Coal Creek Utility District
Phone: (425)235-9200
Email: dgravelle@ccud.org

Plan Prepared By:

Name: Dan Gravelle, Steve Moye
Title: Water/Sewer Technician
Entity: Coal Creek Utility District
Phone: (425)235-9200
Email: dgravelle@ccud.org

Coal Creek Utility District Profile

The District has been serving the community of Newcastle since 1959. With a growing population of approximately 13,000 with 4,000 water connections and 3,500 sewer connections.

- 5 water reservoirs with the capacity of 13 million gallons
- 9 Sewer lift stations





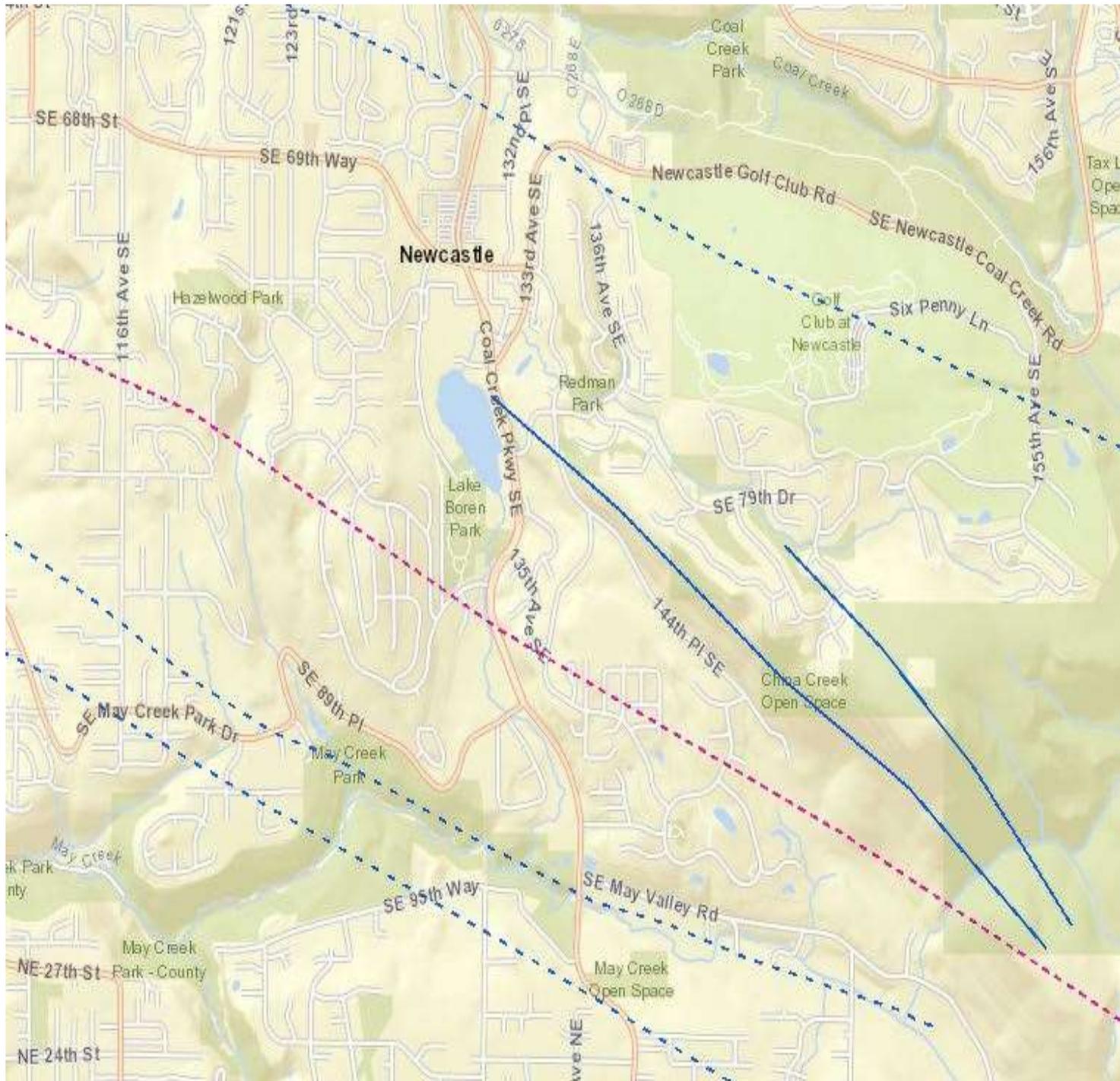
Coal Creek Utility District Risk Summary

Hazard Risk and Vulnerability Summary

HAZARD	HAZARD SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
Earthquake	Our 700 Reservoir is susceptible to earthquake damage of structure and could mean total loss of the reservoir	The tank was built out of concrete in the early 60's and is already showing signs of failure and damage.	The reservoir is a booster station to supply the 1060 reservoir. If we lost the 700 it would be a challenge to supply water to our customers in our higher elevations.
Mine Shafts	The area of Newcastle was mined from 1870-1963	Parts of Newcastle have a history of mine sink holes	In the areas mentioned we have water and sewer infrastructure that has potential for separation of services.
Landslide	Some areas in district	Rainier Crest booster station was built on a known landslide area	The loss of rainier crest would impact water availability to our customers in the higher elevations.
Severe Weather	Wind	Historical high wind events	Multiple day power outages may present refueling issues.
Severe Winter Weather	Due to the topography of our district we will have limited access to our facilities	In an event of severe winter weather, the ability to refuel generators would be limited	Without the ability to refuel our booster stations we would possibly be unable to increase reservoir levels. We would also be unable to refuel our sewer lift station generators.



Fault Lines in District





Coal Creek Assets at Risk

ASSET	VALUE (\$)	HAZARD SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
700 Reservoir	\$4 million	Our 700 Reservoir is susceptible to earthquake damage of structure and could mean total loss of the reservoir.	The tank was built out of concrete in the early 60's and is already showing signs of failure and damage.	The reservoir is a booster station to supply the 1060 reservoir. If we lost the 700 it would be a challenge to supply water to our customers in our higher elevations.
Rainier crest booster station	\$1.5 million	Rainier crest is a booster station to feed our high elevations.	Rainier crest is built on a site with known landslide issues.	This station would present a challenge by not serving our community in the higher zones.
Water/Sewer Infrastructure	\$500,000	Coal mines have the potential for collapse or sink holes	Many of our services were built in coal mine areas	Disruption of service and environment hazards

Plan Update Process

Coal Creek Utility District participates with King County planning process and is involved with the hazard mitigation committee.

We as a district as well as our engineering firm continue to assess our assets at risk and continue to plan for system upgrades throughout our service area.

Coal Creek Utility District continues the philosophy of field crew involvement with policy makers and engineering on district projects to further advance Hazard Mitigation priorities.

Jurisdiction Planning Team

NAME	TITLE	ORGANIZATION	CONTRIBUTION
Dan Gravelle	Water/Sewer Tech	Coal Creek Utility District	
Steve Moyer	Water/Sewer Tech	Coal Creek Utility District	

Plan Update Timeline

PLANNING ACTIVITY	DATE	SUMMARY	ATTENDEES
Regional Hazard Mitigation workshop	2018-2019	Meeting with regional participants	Dan Gravelle Steve Moyer
Hazard Mitigation Steering committee	2019	Coordinated with steering committee members	Dan Gravelle Steve Moyer Steering Committee
City of Renton-Emergency management members	2019	City of Renton hazard mitigation plan	Dan Gravelle Steve Moyer

Public Outreach Events

EVENT	DATE	SUMMARY	ATTENDEES
Newcastle Days	Sept 7 th 2019	Shared our risks and assessment strategies with the public, followed by questions and answers	Residents of Newcastle



Jurisdiction Hazard Mitigation Program

Hazard mitigation strategies were developed through a two-step process. Each jurisdiction met with an internal planning team to identify a comprehensive range of mitigation strategies. These strategies were then prioritized using a process established at the county level and documented in the base plan.

The goals and projects identified in this Hazard Mitigation Plan will also inform other planning mechanisms and will be integrated into other planning efforts. Often goals and projects from the Hazard Mitigation Plan overlap with other capital improvement projects and may be advantageous in leveraging funding for investments that offer cost-incentive through risk reduction or minimization.

The District plans to integrate the information and goals outlined in the current HMP with the following planning documents:

- Water Comprehensive Plans – supports efforts to minimize natural hazard vulnerabilities within the water plan by developing a capital facilities plan. The Plan also identifies policies that support hazard mitigation planning efforts.
- Emergency Response Plan - supports the efforts of minimizing vulnerabilities, natural and manmade, within the water system during an emergency.
- Capital Improvement Plan - supports projects that are identified in this plan update. The CIP is updated by the District and adopted by the Board of Commissioners in the fall of each year.
- Other planning documents, policies and activities, when deemed mutually beneficial

Plan Goals

Goal 2 – Access to Health and Human Services

Goal 6 – Community and Public Safety

Goal 12 – Healthy Built and Natural Environments

Plan Monitoring, Implementation, and Future Updates

King County leads the mitigation plan monitoring and update process and schedules the annual plan check-ins and bi-annual mitigation strategy updates. Updates on mitigation projects are solicited by the county for inclusion in the countywide annual report. As part of participating in the 2020 update to the Regional Hazard Mitigation Plan, every jurisdiction agrees to convene their internal planning team at least annually to review their progress on hazard mitigation strategies and to update the plan based on new data or recent disasters.

As part of leading a countywide planning effort, King County Emergency Management will send to planning partner any federal notices of funding opportunity for the Hazard Mitigation Assistance Grant Program. Proposals from partners will be assessed according the prioritization process identified in this plan and the county will, where possible, support those partners submitting grant proposals. This will be a key strategy to implement the plan.

The next plan update is expected to be due in April 2025. All jurisdictions will submit letters of intent by 2023, at least two years prior to plan expiration. The county will lead the next regional planning effort, beginning at least 18 months before the expiration of the 2020 plan.

Continued Public Participation

King County and its partner cities already maintains substantial public outreach capabilities, focusing on personal preparedness and education. Information on ongoing progress in implementing the hazard mitigation plan will be integrated into public outreach efforts. This will provide King County residents, already engaged in personal preparedness efforts, with context and the opportunity to provide feedback on the county’s progress and priorities



in large-scale mitigation. In the vertical integration of risk-reduction activities from personal to local to state and federal, it is important that the public understand how its activities support, and are supported by, larger-scale efforts.

The outreach and mitigation teams will also continue to work with media and other agency partners to publicize mitigation success stories and help explain how vulnerabilities are being fixed. When possible, public tours of mitigation projects will be organized to allow community members to see successful mitigation in action.

Hazard Mitigation Authorities, Responsibilities, and Capabilities

PLAN TITLE	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Comprehensive Plan 2013 Water and Sewer	Coal Creek Utility District	Dan Gravelle Steve Moye	Our CIP programs is integrated through our Hazard Mitigation process.
Comprehensive Emergency Response Plan	Coal Creek Utility District	Dan Gravelle Steve Moye	ERP parallels Hazard mitigation priorities

National Flood Insurance Program

Coal Creek Utility District does not participate with the program

Hazard Mitigation Strategies

2015 Hazard Mitigation Strategy Status

STRATEGY	DESCRIPTION	PRIORITY	STATUS
Determine erosion and earthquake vulnerabilities	Geotechnical study of our 700 Reservoir	Medium Risk	Complete

2020 Hazard Mitigation Strategies

Reservoir Replacement study

STRATEGY	LEAD AGENCY/POC	TIMELINE	PRIORITY
700 Reservoir Replacement	. Coal Creek Utility District . Pace Engineering	2-5 years	Medium Risk



Hazard Mitigation Strategy

<p>Lead Points of Contact</p> <ul style="list-style-type: none"> • Dan Gravelle • Steve Moye <p>Water/ Sewer Technicians</p>	<p>Partner Points of Contact Pace Engineering</p>	<p>Hazards Mitigated / Goals Addressed</p> <p>2. Access to Health and Human services</p> <p>6. Community and Public Safety</p> <p>12. Healthy Built and Natural Environments</p>	<p>Funding Sources and Estimated Costs</p> <ul style="list-style-type: none"> • self-funding • \$5 million
<p>Strategy Vision/Objective</p> <p>Maintain and upgrade our water distribution system to provide resilience in the event of an earthquake and to ensure safe drinking water for the community.</p>			
<p>Mitigation Strategy</p> <ul style="list-style-type: none"> • Tank/ Site study • Negotiations with the City of Newcastle to determine possible use of open space • Coordinate with future developers for Reservoir relocation site 			
<p>2-Year Objectives</p> <ul style="list-style-type: none"> • Co- Worker discussion • Engineer management meeting • Site plan/ pre application implementation for future site. • Cost Analysis 	<p>5-Year Objectives</p> <ul style="list-style-type: none"> • GIS mapping/ Engineers • CIP budget Comp Plan • Acquire land/site development 	<p>Long-Term Objectives</p> <ul style="list-style-type: none"> • 700 Reservoir relocation 	
<p>Implementation Plan/Actions</p> <ul style="list-style-type: none"> • Coordinate with Pace Engineering to determine concrete tank condition, if recommendation is to replace concrete tank, we would coordinate with the City of Newcastle for potential land acquisition. • We will determine structural integrity of assets. • Preliminary relocation study/plan 			
<p>Performance Measures</p> <ul style="list-style-type: none"> • Reduction of risk to our 700 Reservoir system. 			