

# WELCOME

## Rueter-Hess Reservoir Open-House Tour

August 7, 2010



### SELF-GUIDED DRIVING TOUR

Welcome to Rueter-Hess Reservoir. This brochure will be your guide for the tour. During your 4.2 mile drive through this amazing structure, there are three marked points of interest and details of these points are on the inside of this brochure.

At the end of your tour, you have an option to leave the site, or park in the *designated parking area* and explore the informational booths from our partners and local governments invested in Rueter-Hess Reservoir. We hope you enjoy your tour while learning about this remarkable water management tool.

Thank you for “driving by” !

**Castle Pines North  
METROPOLITAN DISTRICT**

**Parker Water &  
Sanitation District**



**TOWN OF  
CASTLE ROCK  
COLORADO**

**STONEGATE  
Village Metropolitan District**

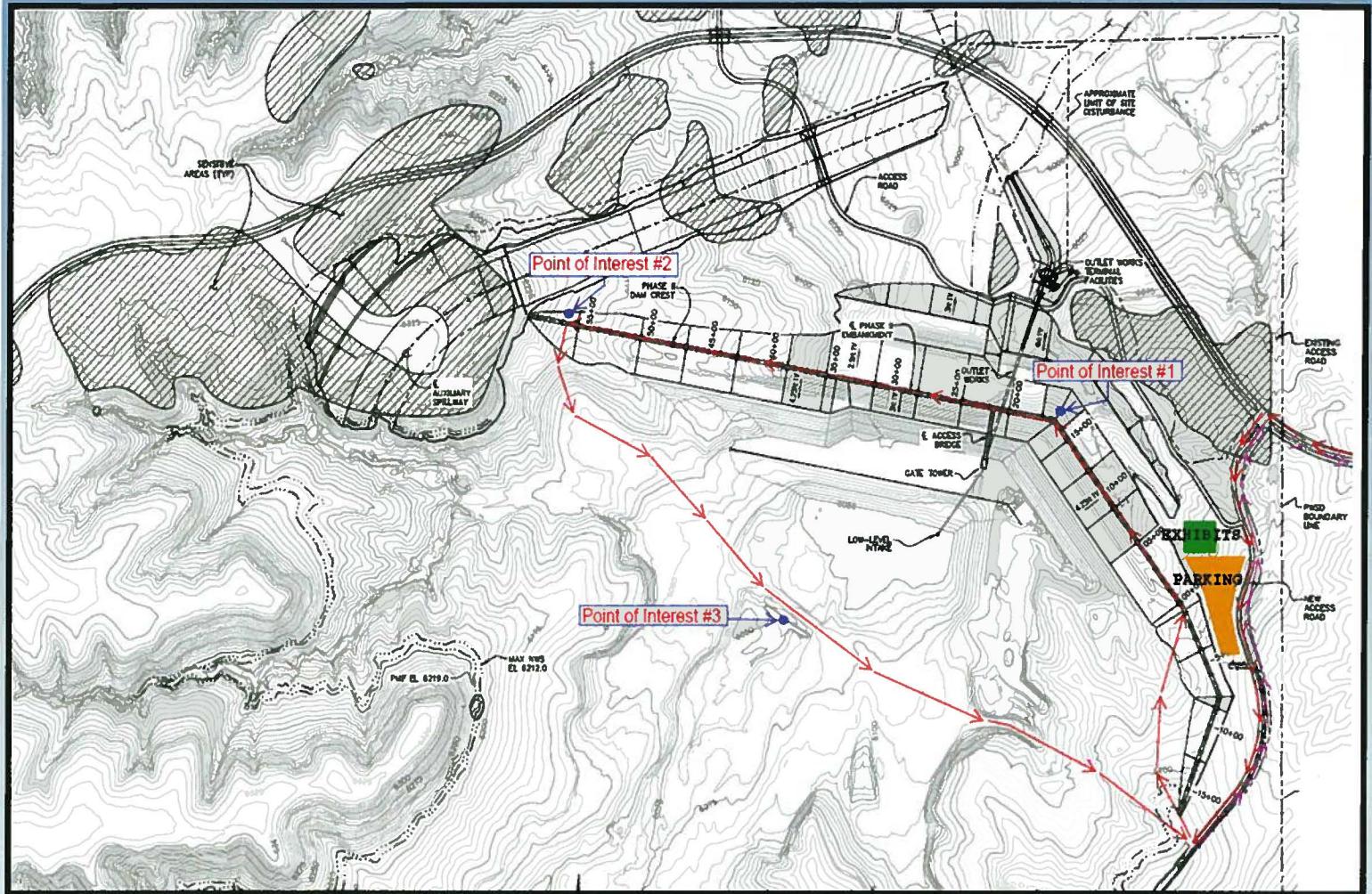
### FOR YOUR SAFETY...

**Please**  
**stay in your vehicle**  
**for the entire**  
**duration of the self-**  
**guided driving tour.**

**Parking is optional at**  
**the end of the driving**  
**tour with information**  
**booths about**  
**Rueter-Hess Reservoir**  
**and many other Town**  
**and County entities.**

**STAY ON THE**  
**DESIGNATED**  
**ROADWAY**

**OBEY ALL SIGNS AND**  
**TOUR ATTENDANTS**



## Point of Interest #1 — Top of Dam Structure

At this location you are approximately 30 feet below the final elevation of the dam.

To the South you can see the outlet tower. The outlet tower has 4 gates in it allowing us to adjust where we take water out of storage so that we can always take the highest quality water available based upon seasonal changes of the water in storage.

The bridge will extend from the outlet tower to the dam once the dam is complete.

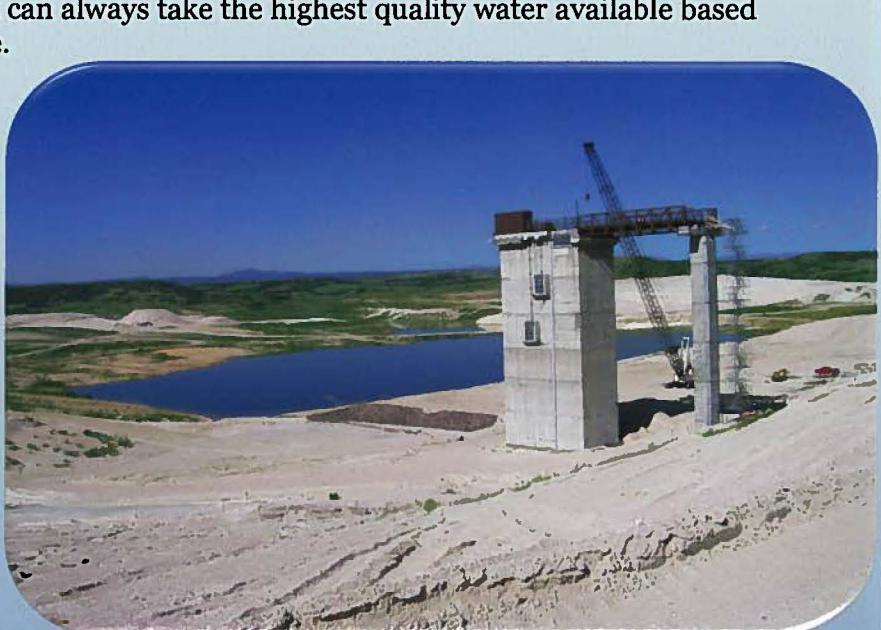
Currently there is 340 acre-feet of water in storage.

No water is currently being pumped into storage. The water that you see is from natural drainage within the Newlin Gulch drainage area.

Pumping of water into storage will commence once the project is complete in early 2012.

If the dam were complete, you would be 184 feet above the valley floor.

To the southwest you can see Castle Pines and I-25. If full, the reservoir would extend to within about 3/8 of a mile of I-25. To the west you see the work being accomplished on the emergency spillway. In the event the reservoir was full and there was a storm event of biblical proportions, then any excess water would be released out of the reservoir via the emergency spillway.



## Point of Interest #2 - Emergency Spillway

The construction you see at this point is the emergency release structure for the dam. In order to prepare for the construction of the emergency spillway, the hillside before you was cut back over 400 feet. Using explosives for blasting and heavy excavation equipment, over 200,000 cubic yards of rock and earth were removed prior to beginning construction of the emergency spillway.



In the event the reservoir was full and we experienced a storm event of major proportions, water would be released through this structure, then down the emergency spillway and then onto Newlin Gulch. The structure is intended to dissipate energy from the water allowing for a controlled release of water.



## Point of Interest #3 - Bottom of Rueter-Hess Reservoir

From here, if the reservoir was full you would be under approximately 170 feet of water.

Looking back to the north, you again see the outlet tower, and on the side of the tower you can see one of the gates.

From here you see 124 feet of the tower structure. What you do not see is that 60 feet of the tower is buried in the embankment of the dam and below that is an additional 15 feet of foundation.



At the bottom of the tower, the concrete walls are eight feet thick to compensate for the earth load as well as the pressure of the water that would be placed on the walls of the tower if the reservoir were full.



**Questions? Stop by our Information Booths on your way out.**

# **RUETER-HESS RESERVOIR**



## **Fact Sheet**

- Planning for the project started almost 30 years ago.
- Permitting of the original project (120 foot tall dam impounding 16,200 Acre feet of water) began in 1999.
- Approval of the original project was granted in 2004.
- Construction on the original project started in September 2004.
- Approval for the enlarged project 184 foot tall dam impounding 72,000 acre feet of water was granted in April of 2008.
- Construction of the enlarged project began in September of 2008.
- Completion of the project is anticipated in spring of 2012.
- By the time the project is complete:

15,000,000 cubic yards of earth will have been placed in the dam.

30,000 cubic yards of concrete will have been placed.

5,600 tons of steel will have be used.

- The final reservoir has a capacity of 72,000 Acre feet of water which equates to 23,461,200,000 gallons of water.
- The surface area of the filled reservoir will be 1,200 Acres or 1.5 times the size of Cherry Creek Reservoir.
- The deepest point of the reservoir will be 184 feet below the surface.
- There will be over 14 miles of shoreline.