



## FINAL REPORT

John McConnell Math and Science Center now formally known as the EUREKA! McConnell Science Museum

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Roundtable basin support from: Colorado, Gunnison, Southwest, Yampa White Green  
Date of CWCB approval: 9/20/2017  
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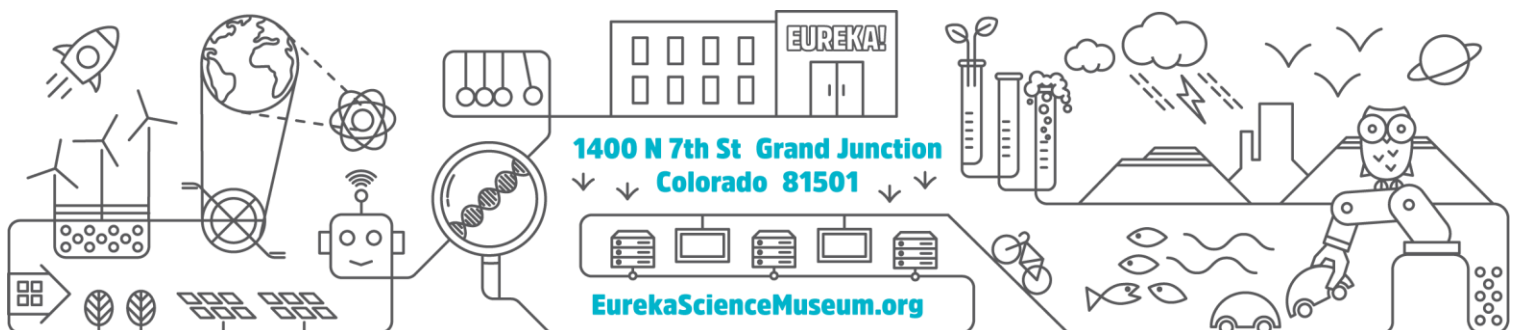
### **Report 2. June 26, 2018 – Dec 26<sup>th</sup>, 2018**

Status report for Advancing K-12 Water Education in Western Colorado for the John McConnell Math and Science Center of Western Colorado Inc.

#### **Task 1. Construction 100% complete**

The water exhibit "Water in the West" has been 100% constructed. The exhibit was designed by Masumi Shibata, Hannah Holm, and Jennifer Moore. Engineering was performed by Reynolds Polymer and Kelly Bevill. Construction of the exhibit was completed by SHAW Construction, Aquarius Aquariums, All Metals Welding, SSD plastics, and Nevin Lister. Nevin is a CMU Engineering student who did all of the 3D printing and gate design for the roller dam and interactive components.

The first major obstacle when considering the construction of a large water exhibit was where it would be located within the EUREKA!. Additional square footage for the water exhibit was added into the construction drawings on the main floor of the exhibit hall of the new EUREKA!. Then water, sewer and electrical had to be incorporated prior to walls being built and concrete laid. The final design of the water exhibit was not complete when the building was under construction. The engineers and EUREKA! staff had to make best guesses as to where plumbing and electrical would be located. Another obstacle was how to get the main cylinder in the museum. It was not going to fit through the main doors. To resolve this issue the cylinder was delivered in a crate a month before the museum walls were completed. SHAW (the general contractor) built the building around the cylinder! Additionally the welder had a medical emergency and was hospitalized for several weeks which delayed in the completion of the project by two months. Most recently the Archimedes screw was showing some rust. The powdercoating process was not perfect and thus a small





portion of the screw was rusting. It was returned to the powercoaters and is being repainted. This is under warranty so is no additional charge to the project.

The total expenditures were in alignment with the proposed budget. When we had costs that were above projected values we received in-kind donations from individuals such as Diamond Coat epoxy. Diamond Coat epoxy put the sand coating on the floor to serve as a no slip surface. This cost was not estimated in the proposed budget nor thought of during the design phase. The Diamond Coat donation was \$15k of in-kind services to resurface the floors. They also donated all of the blue epoxy coating inside the flume. All Metals Welding provided reduced pricing for etching on the metal wrap when we changed the scope for aesthetic purposes. All of the cash match was received and donated by Clifton Water, Ute Water, and the Colorado River District. A wonderful bonus outcome of the project, Ute Water spearheaded a new fundraising effort with the water users of the Grand Valley to provide summer camp scholarships to kids for hydrology focused summer camp in the summer of 2019.

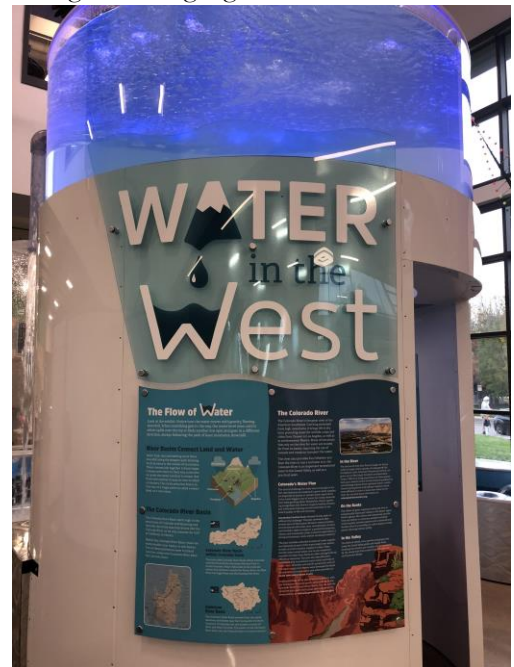
### **Task 2. Signage 100% complete**

The signage content for the main exhibit was developed by Hannah Holm from the Ruth Hutchins Water Center at CMU. Hannah was on sabbatical during the initial phases of signage development. This was a minor obstacle and we quickly made up for lost time upon her return from Portugal. The signage content was then given to Masumi Shibata (graphic artist) and he worked closely with Jenn Moore from EUREKA! and Hannah Holm to ensure the graphics complemented the provided text.

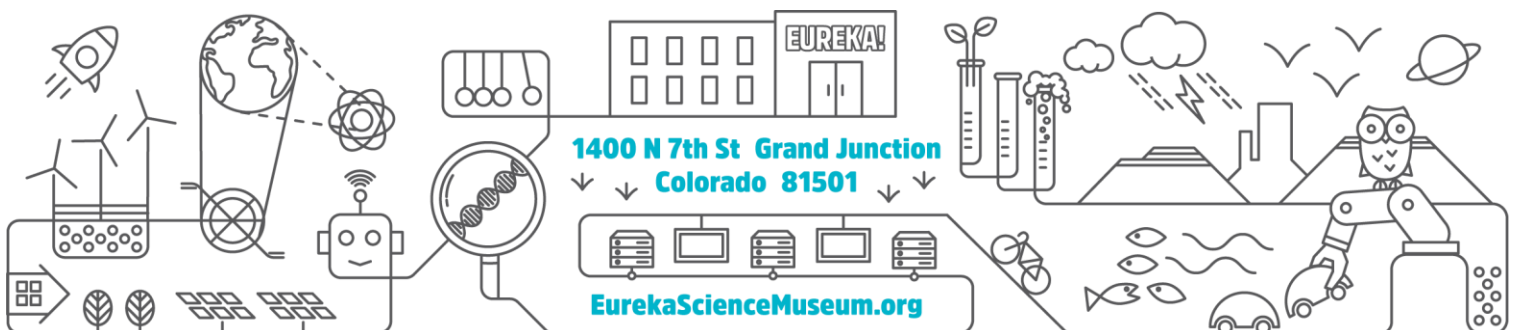
### **Task 3. Administration 100% complete**

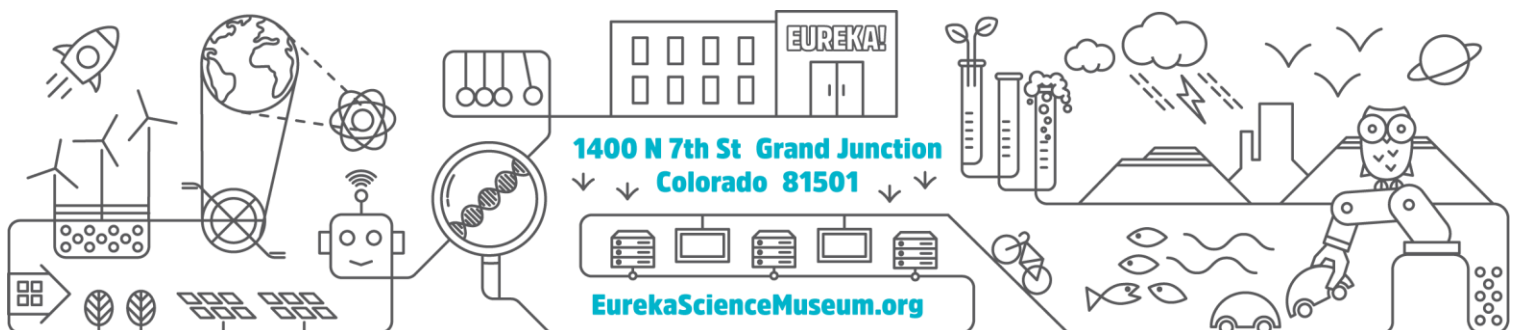
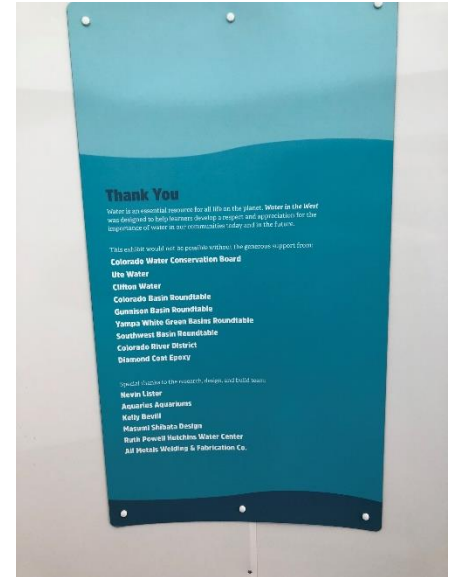
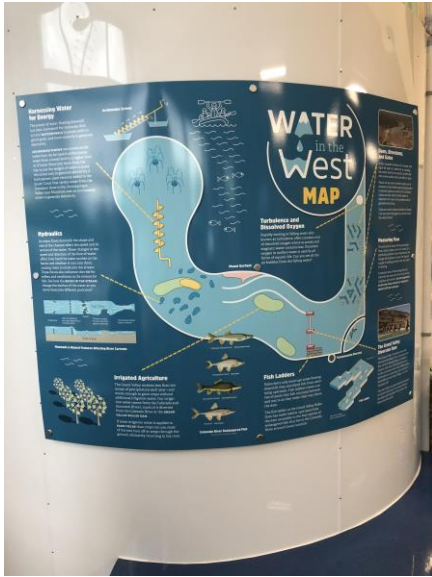
Beyond the scope of the grant and underwritten by the EUREKA! we developed field trip curriculum for visiting schools to utilize the new exhibit. Each activity guide is customized for grade appropriateness to meet state learning standards. Teachers visiting the museum find the hydrology activity guide very helpful.

We had a Grand Opening celebration on September 13<sup>th</sup> with 85 people in attendance. The attendees provided positive feedback about the exhibit. Roundtables are now trying to provide funding for busing to send kids from their districts to the museum. We have had over 6,000 students in the past 6 months visit the museum on field trips. Teachers report that they appreciate coming to the EUREKA! for the water exhibit and that there is no other hands-on hydrology resource within hours of their school.

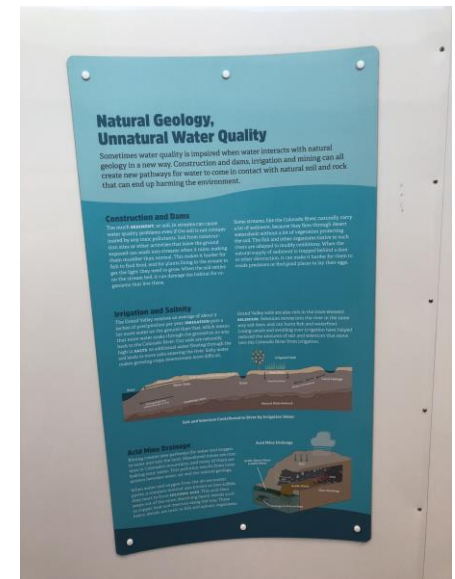
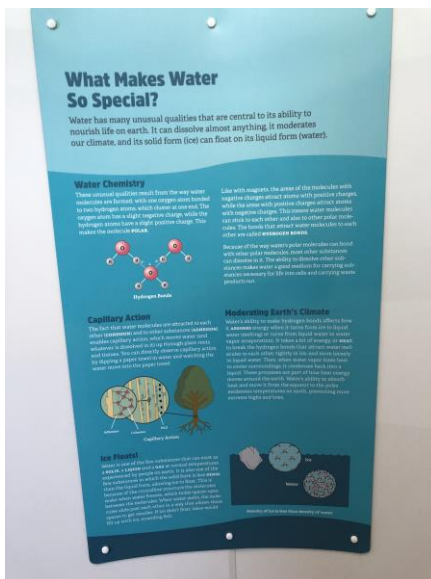
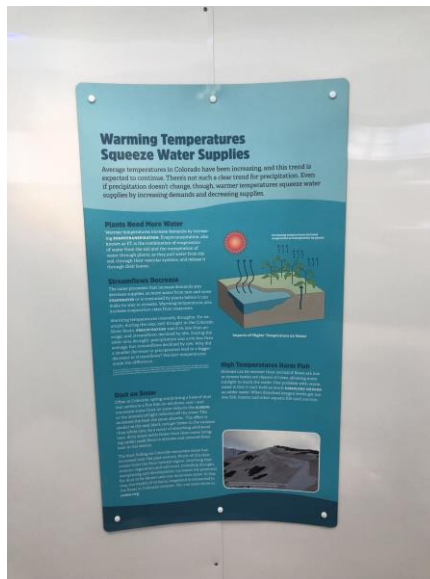
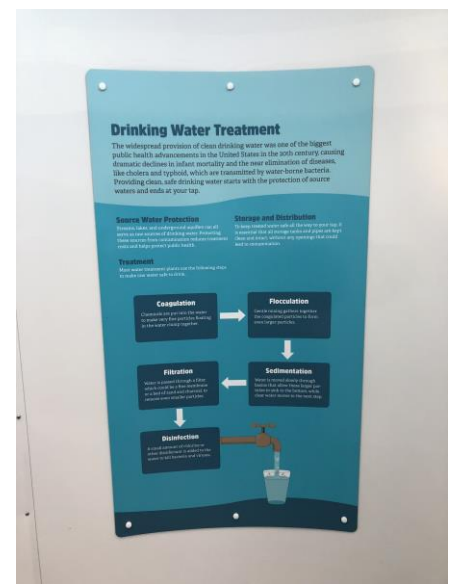
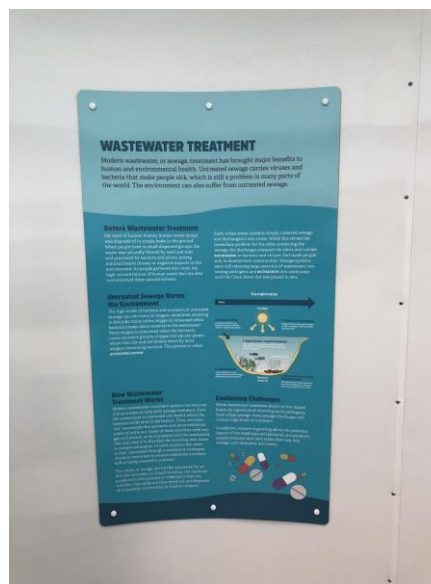
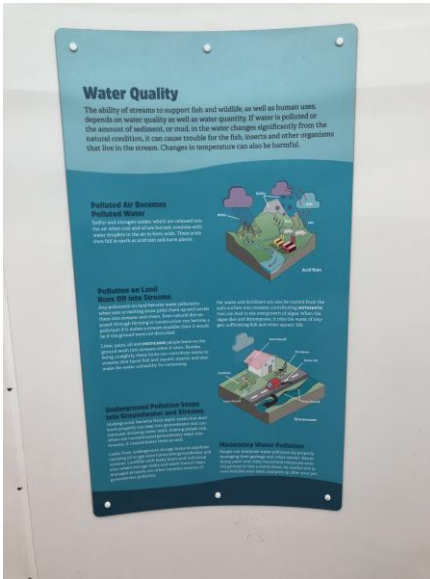


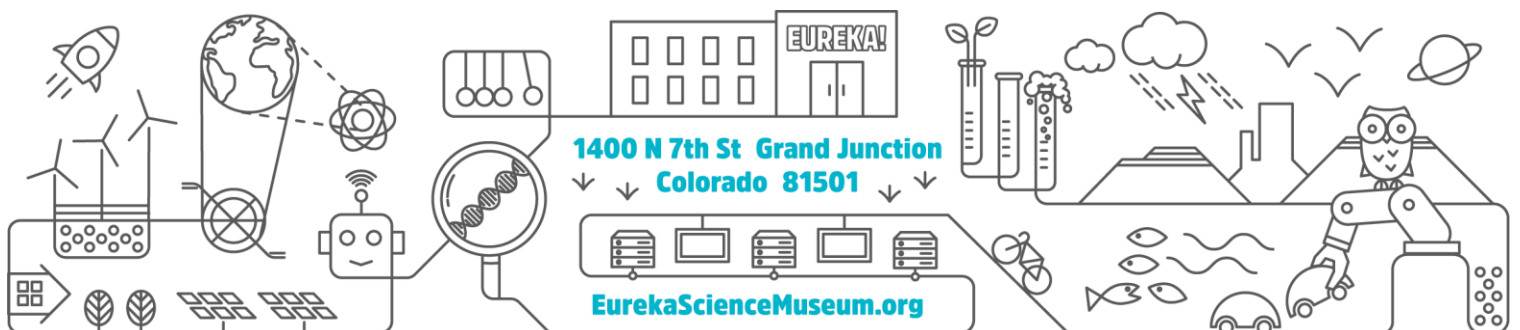
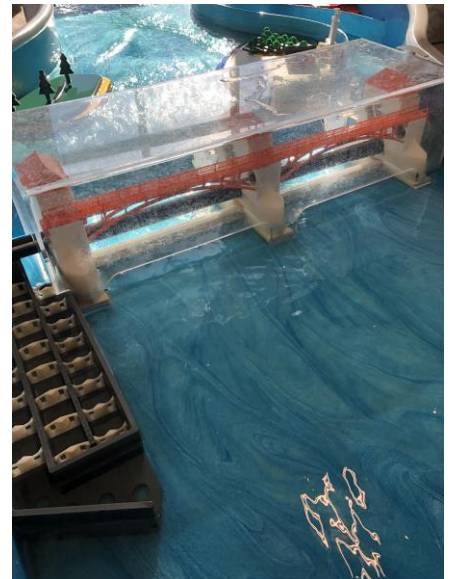
The EUREKA! Board of Directors and staff are thankful to the Colorado Water Conservation Board and the Roundtables for their support to make this project possible.















Thank You!

Jennifer Moore  
Executive Director

